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CA/CAplus patent kind codes updated
MARPAT to CA/CAplus accession number crossover limit increased CAS Registry Number crossover limit increased to 300,000 in additional databases CAS REGISTRY updated with new ambiguity codes CAS REGISTRY chemical nomenclature enhanced WPIDS/WPINEX/WPIX manual codes updated GBFULL and FRFULL enhanced with IPC 8 features and CA/CAplus to MARPAT accession number crossover limit increased Olc now available /CAplus pre-1967 chemical substance index entries enhanced Welcome to STN International \* \* \* \* \* \* \* \* \* \*

STN Columbus

FILE 'HOME' ENTERED AT 13:44:54 ON 16 JAN 2007

=> file medline
COST IN U.S. DOLLARS

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 13:45:18 ON 16 JAN 2007

FILE LAST UPDATED: 13 Jan 2007 (20070113/UP). FILE COVERS 1950 TO DATE

All regular MEDLINE updates from November 15 to December 16 have been added to MEDLINE, along with 2007 Medical Subject Headings (MeSH(R)) and 2007 tree numbers.

The annual reload will be available in early 2007.

This file contains CAS Registry Numbers for easy and accurate substance identification.

a> s tgf or (transforming growth factor) or (tumor growth factor) or (tumour growth factor) 27123 TGF

685837 TUMOR 286811 TUMORS 811496 TUMOR OR TUMORS) (GROWTH OR GROWTHS)
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38625 TRANSFORMING GROWTH FACTOR
(TRANSFORMING (W) GROWTH (W) FACTOR) (FACTOR OR FACTORS)
204 TUMOR GROWTH FACTOR
(TUMOR (W) GROWTH (W) FACTOR) (FACTOR OR FACTORS)
44 TUMOUR GROWTH FACTOR GROWTHS GROWTH (TGF OR TGFS)

LANGUAGE:
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465739 REVIEW 5 » s 11 2003/py MISSING OPERATOR IL 2003/PY The search profile that was entered contains terms or nested terms that are not separated by a logical operator. s 14 and (clinical or therapeutic or treatment or diseases) 5 ₿ ACCESSION NUMBER: s 11 and 2003/py PUB. COUNTRY: DOCUMENT TYPE: CORPORATE SOURCE: -> d 1-77 ibib abs Y DATE: Entered STN: 30 Apr 2004

Last Updated on STN: 2 Jul 2004

Entered Medline: 1 Jul 2004

Hepatic fibrosis, is a wound healing process characterized by accumulation of extracellular matrix proteins (ECM) especially collagen types I and ANSWER 1 OF 77 (CLINICAL OR CLINICALS)
1519332 THERAPEUTICS
19248 THERAPEUTICS
1532733 THERAPEUTIC 48 CLINICALS 1511455 CLINICAL 1687604 DISEASES
77 LA AND (CLINICAL OR THERAPEUTIC OR TREATMENT OR DISEASES) 1974712 TREATMENT 138460 TREATMENTS 2029975 TREATMENT 511428 CLINICAL 58364 REVIEWS 510647 REVIEW 571718 2003/PY (TUMOUR(W)GROWTH(W)FACTOR) OR (TUMOR GROWTH FACTOR) OR (TUMOUR GROWTH FACTOR) 3147 L1 AND 2003/PY 135 L3 AND REVIEW (REVIEW OR REVIEWS) (20030000-20039999/PY) (THERAPEUTIC OR THERAPEUTICS) (TREATMENT OR TREATMENTS) MEDLINE on STN
2004217511 MEDLINE
PubMed ID: 15115954
Liver fibrosis and inflammation. A review.
Liver fibrosis and inflammation. A review.
Kershenobich Stalnikowitz David; Weissbrod Alan Bonder
Instituto Nacional de Ciencias Medicas y Nutricion Salvador
Zubiran. kesdequetzal.innsz.mx
Annals of hepatology; official journal of the Mexican
Association of Hepatology; (2003 Oct-Dec) Vol. 2,
No. 4, pp. 159-63. Ref: 41 General Review; (REVIEW) English Priority Journals Journal; Article; (JOURNAL ARTICLE) Journal code: 101155885. ISSN: 1665-2681.

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: æ DOCUMENT TYPE: PUB. COUNTRY: SOURCE: CONTRACT NUMBER: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ACCESSION NUMBER: CORPORATE SOURCE: Entered STN: 7 Feb 2004

Last Updated on STN: 18 Feb 2004

Entered Medline: 17 Feb 2004

The topic of this review is first to analyze in normal

conditions the signal transduction pathways induced by members of the

HER-ErbB receptor family and their ligands, and second, to decipher some

deregulations occurring in various cancer types. As a result, new

therapeutic opportunities will be mentioned. III, as well as an increase in other extracellular matrix constituents such as proteoglycans, fibromectin and laminin in response to liver injury. Recruitment of Leukocytes takes place after the insult and requires several adhesion molecules. Monocytes and macrophages are involved in inflammatory actions by producing nitric oxide and inflammatory cytokines. As a consequence of chronic tissue damage stellate cells (SC) as well as extracellular matrix producting cells, undergo a process of activation characterized by proliferation, motility, contractility, and synthesis of extracellular matrix. Activation of SC is regulated by several soluble factors, including cytokines, chemokines, growth factors, and products of oxidative stress. TGF - b and II- 6 are the two main fibrogenic cytokines. Potential regulatory factors of the activation of SC are important targets for future antifibrogenic recements. ANSWER 3 OF 77 ANSWER 2 OF 77 treatments. MEDLINE on STN
2004052556 MEDLINE
PUBMEd ID: 14763137
(HER-ErbB family of receptors and their ligands: mechanisms of activation, signals and deregulation in cancer].
La famille des recepteurs HER-ErbB et ses ligands: mecanismes d'activation, signalisations et deregulations patterning disorders. Serra Rosa; Chang Chenbei Serra Rosa; Chang Chenbei Department of Cell Biology, University of Alabama, Birmingham 35294-0005, USA.. rserra@cellbio.bhs.uab.edu Birth defects research. Part C, Embryo today : reviews (2003 Nov) Vol. 69, No. 4, pp. 333-51. Ref: 195
Journal code: 101167665. ISSN: 1542-975X. United States R01 AR45605 (NIAMS) R01 AR46982 (NIAMS) R01 HD43345 (NICHD) 2004043977 MEDL PubMed ID: 14745974 Bulletin du cancer, (2003 Nov) Vol. 90 Spec No, pp. S179-85. Ref: 45 Journal code: 0072416. ISSN: 0007-4551. Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) ISBDC (Institut de signalisation, biologie du developpement et cancer) CNRS UMR 6543, 28, avenue Valrose, 06108 Nice.. TGF-beta signaling in human skeletal and Priority Journals France L'Allemain Gilles dans le cancer. Priority Journals 200402 lallemain@unice.fr MEDLINE on STN MEDLINE

ENTRY DATE: Entered STN: 28 Jan 2004
Last Updated on STN: 5 May
Entered Medline: 4 May 2004 5 May 2004

₽ Members of the transforming growth factor beta (TGF-beta) family of multifunctional peptides are involved in almost every aspect of development. Model systems, ranging from genetically tractable invertebrates to genetically engineered mice, have been used to determine the mechanisms of TGF-beta signaling in normal development and in pathological situations. Furthermore, mutations in genes for the ligands, receptors, extracellular modulators, and intracellular signaling molecules have been associated with several human disorders. The most common are those associated with the development and disorders. The most common are those associated with the development and maintenance of the skeletal system and axial patterning. This review focuses on the mechanisms of TGF-beta signaling with special emphasis on the molecules involved in human disorders of patterning and skeletal development. Copyright 2003 Wiley-Liss, Inc.

DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 4 OF 77

CORPORATE SOURCE: MEDLINE on STN
2004017113 MEDLINE
2004017113 MEDLINE
PubMed ID: 14714591
How to make a good oocyte: an update on in-vitro models to study follicle regulation.
Thomas Fiona H; Walters Kirsty A; Telfer Evelyn E
Institute of Cell and Molecular Biology, The University of Edinburgh, The King's Buildings, Wayfield Road, Edinburgh EH9 JR, UK

an reproduction update, (2003 Nov-Dec) Vol. 9, 6, pp. 541-55. Ref: 197

Journal code: yourus. England: United Kingdom England: United Kingdom ArTICLE) General Review; (REVIEW)

Priority Journals

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE: DOCUMENT TYPE: PUB. COUNTRY:

ENTRY DATE:

ENTRY DATE:

Entered STN: 13 Jan 2004

Entered STN: 28 Jul 2004

Entered Medline: 27 Jul 2004

Entered Medline: 27 Jul 2004

Entered Medline: 27 Jul 2004

AB The ability to develop the technology to mature oocytes from immature ocytes in vitro is the ambition of many IVF clinics. If this can be successfully achieved then these techniques would be available to women with fertility problems. This would aid women at risk of premature ovarian failure, and possibly result in women no longer requiring an expensive drug regime and monitoring programme, which they currently have to undergo. The idea of harvesting immature ocytes for growth in vitro is not a new one, but progress has been slow in developing and optimizing techniques for use on humans and domestic species. At present, there are many technical reasons for the lack of progress in these species, such as length of culture and difficulty of follicle isolation. However, the major problem is our lack of knowledge of how the ocytes, the as developmental competence during its growth within the follicle. To date, culture systems have been developed that can support the growth and development of immature ocytes. These systems are beneficial in improving our knowledge of how autocrine/paracrine factors are involved in regulating and controlling occyte development. However, only when we have a more in-depth understanding of what is required during development to make a viable occyte, will we perhaps be able to develop in-vitro culture systems, has advanced our knowledge of the factors and process involved in the regulation of occyte and somatic cell development.

ACCESSION NUMBER: ANSWER 5 OF 77 2004006631

> LANGUAGE:
> FILE SEGMENT:
> ENTRY MONTH: Enteried State to State 2004
>
> AND PURPOSE: To review the effects of injured corneal epithelial cells on myofibroblastic cell formation in corneal stroma after excimer laser surgery. METHODS: Denudation of epithelium alone, photorefractive keratectomy (PRK), laser in situ keratemileusis (LASIK), and LASIK with denudation of epithelium were performed in rabbit eyes. Postoperative anterior stromal haze was assessed using a standard scale. Immunohistochemical methods were used to detect alpha-smoth muscle actin (alpha-SMA), a marker of myofibroblastic cells, and type III collagen in subspithelial corneal tissue. Rabbit corneal fibroblasts were cultured on collagen gels with or without cocultured corneal epithelial cells, or with partially scraped epithelial cells, on a companion plate separated by a permeable membrane. Gel thickness was measured daily to evaluate fibroblast-induced gel contraction. The total number of fibroblasts per gel was determined. Myofibroblasts were counted using immunocytochemical identification with alpha-SMA. Transforming growth factor (TGF)-beta was assayed in media on days 3 and 6; these procedures were also carried out in the presence of anti-TGF beta antibody. RESULTS: Three weeks after surgery, the presence of alpha-SMA-positive long-extended and spindle-shaped stromal cells as well as synthesis of type III collagen were observed in the subspithelial stromal layer, corresponding to corneal haze, in eyes that underwent per alpha-SMA-positive cells, and total cell number were significantly greater on gels with injured epithelial cells than on those without epithelial cells on in cubin of the presence of one in the presence of one in cubin of the presence of one in the presence of one in cubin of the presence of one in the presence of one in the presence of one in cu ENTRY DATE: DOCUMENT TYPE TITLE: DOCUMENT NUMBER: CORPORATE SOURCE: Department of Ophthalmology, Keio University School Medicine, Tokyo, Japan.. up4k-nkmr@asahi-net.or.jp Cornea, (2003 Oct) Vol. 22, No. 7 Suppl, pp. Entered STN: 6 Jan 2004 Priority Journals Journal; Article; (JOURNAL ARTICLE) United States Journal code: 8216186. ISSN: 0277-3740. stromal cells. PubMed ID: 14703706 interaction between injured corneal epithelial cells and

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LANGUAGE: DOCUMENT TYPE PUB. COUNTRY: CORPORATE SOURCE: DOCUMENT NUMBER: LS ANSWER 6 OF ACCESSION NUMBER: 77 2003607406 MEDLINE
PubMed ID: 14659153
Carcinoid-a comprehensive review.
Schnirer Isac I; Yao James C; Ajani Jaffer A
Schnirer Isac I; Yao James C; Ajani Jaffer A
Department of Gastrointestinal Oncology and Digestive
Diseases. The University of Texas M.D. Anderson Cancer
Center, Houston, Texas 77005-4341, USA.
Acta oncologica (Stockholm, Sweden), (2003) Vol.
42, No. 7, pp. 672-92. Ref: 248 Norway General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE)

ENTRY MONTH: ENTRY DATE: FILE SEGMENT: Priority Journals 200401

ENTRY DATE: Entered STN: 24 Dec 2003

Entered Medline: 7 Jan 2004

AB Carcinoid tumors originate from the neuroendocrine cells throughout the body and are capable of producing various peptides. Their clinical course is often indolent but can also be aggressive and resistant to therapy. We examined all aspects of carcinoid tumors including the molecular biology oncogenesis, role of angiogenesis, recent advances in imaging, and therapy. The Medline and Cancerlit databases were searched using carcinoid as the keyword. English language manuscripts were reviewed and relevant references from a total of 7741 were found. All titles were screened and all the relevant manuscripts were analyzed; we found 307 references pertinent to the history, epidemiology, clinical behavior, pathology, pathophysiology, molecular biology, radiologic imaging, supportive care of carcinoid syndrome, and results of therapeutic clinical trials.

Management of patients with carcinoid tumors requires an understanding of the disease process and a multimodality approach. Introduction of ing-acting somatostatin analogues has resulted in significant advances in advanced carcinoid tumor remains incurable. Existing therapies for advanced carcinoid tumor remains incurable. Existing therapies for advanced carcinoid tumor remains incurable. Existing therapies for field need to focus on clinical and biological predictors of this outcome. Early works in the areas of tumor biology such as the role of interest and need to be explored further.

DOCUMENT NUMBER: TITLE: ACCESSION NUMBER: ANSWER 7 OF 77 MEDLINE on STN

2003602050 MEDLINE
PubMed ID: 14683500
Emerging role of endoglin (CD105) as a marker of
angiogenesis with clinical potential in human

CORPORATE SOURCE: Fonsatti E; Sigalotti L; Arslan P; Altomonte M; Maio M Department of Medical Oncology, Centro di Riferimento Oncologico, IRCCS, Aviano 33081, Italy. efonsatti@cro. Current cancer drug targets, (2003 Dec) Vol. 3, No. 6, pp. 427-32. Ref: 82 efonsatti@cro.it

SOURCE:

code: 101094211. ISSN: 1568-0096.

DOCUMENT TYPE: PUB. COUNTRY: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Netherlands

ority Journals

LANGUAGE: FILE SEGMENT:

ENTRY DATE: ENTRY MONTH:

200402

ENTRY DATE:

Entered STN: 20 Dec 2003

Entered Medline: 10 Feb 2004

Entered Medline: 10 Feb 2004

AB Angiogenesis is crucial for tumor development and progression, and antiangiogenetic therapy represents a promising approach for cancer treatment: Thus, the in-depth understanding of the molecular mechanism(s) regulating angiogenesis, together with the characterization of molecular expressed by endothelial cells and involved in distinct steps of the angiogenetic process, will greatly improve the design of new and more effective therapeutic strategies in human malignancies.

Endoglin (CD105), a cell membrane glycoprotein predominantly expressed on proliferating endothelial cells, is involved in blood vessels development and represents a powerfull marker of neovascularization. CD105 binds several factors of the Transforming Growth

Factor (TGF)-beta superfamily, a pleiotropic cytokine ₽

> differentiation and migration. In human malignancies of different histotype, CD105 is highly expressed on endothelial cells of both periand intra-tumoral blood vessels, while it is weakly expressed or absent on neoplastic cells. This unique tissue distribution strongly suggests for a prognostic, diagnostic and therapeutic potential of CD105 in neoplastic diseases. In this review we will summarize the structural and functional features of CD105, as well as its tissue distribution in normal and neoplastic tissues. Furthermore, the practical implications of CD105 in human malignancies will also be discussed. that regulates different cellular functions including proliferation, differentiation and migration. In human malignancies of different

TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 8 OF 77 2003571815 MEDLINE PubMed ID: 12832715 MEDLINE on STN

Michael Mason prize essay 2003. Why do leucocytes accumulate within chronically inflamed joints? Buckley C D

CORPORATE SOURCE: Department of Rheumatology, MRC Centre for Immune Regulation, University of Birmingham, UK.. c.d.buckley@bham.ac.uk Rheumatology (Oxford, England), (2003 Dec) Vol. 42, No. 12, pp. 1433-44. Electronic Publication: 2003-06-27. Ref: 62

DOCUMENT TYPE PUB. COUNTRY: Journal code: 100883501. ISSN: 1462-0324. England: United Kingdom Journal, Article; (JOURNAL ARTICLE) General Review; (REVIEW) English

ENTRY MONTH: ENTRY DATE: LANGUAGE: FILE SEGMENT: Entered STN: 16 Dec 2003 Last Updated on STN: 24 Jan 2004 Entered Medline: 23 Jan 2004 200401 Abridged Index Medicus Journals; Priority Journals

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AB Chronic inflammation is characterized by the accumulation of leucocytes within tissues. In rheumatoid arthritis the inflammatory infiltrate shares many architectural features with lymphoid tissue. For example, CD4 T cells and B cells accumulate in perivascular lymphoid structures within synovial tissue. OB8 T cells and neutrophils are found predominantly within synovial fluid. What drives these distinctive lymphoid elections such as fibroblasts to this process is the subject of this review. Cellular interactions between leucocytes and stromal cells such as fibroblasts to this process is the subject of this review. Cellular interactions between leucocytes and stromal tumour necrosis factor-alpha within the inflamed synovium. Therefore understanding how leucocytes accumulate within the inflamed synovium is likely to provide new therapeutic approaches to modify the inflammatory process. We have found that fibroblasts play a dominant role in defining the disordered synovial microenvironment in rheumatoid arthritis. Through their production of a variety of cytokines (interferon-beta, transforming growth factor beta) and constitutive chemokines (stromal cell-derived factor-1, CXCL12) they directly alter the behaviour of lymphocytes that accumulate within chronically inflamed joints leading to their inappropriate survival and retention of the constitutive B cell-attracting chemokine BCA-1 (CXCL13) is associated with lymphocyte accumulation and lymphoid tissue formation. These findings suggest that stromal cells such as fibroblasts play an important role in the switch from accure resolving to chronic persistent the constitutive B cell-attracting chemokine BCA-1 (CXCL13) is associated with lymphocyte accumulation in the wrong place at the wrong time. wrong time.

LS ANSWER 9 OF 77 ACCESSION NUMBER: 2003566685 MEDI PubMed ID: 14643161 MEDLINE on STN MEDLINE

FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

Entered STN: 16 Dec 2003

Last Updated on STN: 22 Jan 2004

Entered Medline: 21 Jan 2004

The intimate connection, both physical and biochemical, between blood vessels and bone cells has long been recognized. Genetic, biochemical, and pharmacological studies have identified and characterized factors involved in the conversation between endothelial cells (EC) and osteoblasts (OB) during both bone formation and repair. The long-awaited FDA approval of two growth factors, BMP-2 and OP-1, with angiogenic and osteogenic activity confirms the importance of these two processes in human skeletal healing. In this review, the role of osteogenic factors in the adaptive response and interactive function of OB and EC during the multi-step process of bone repair will be discussed. LANGUAGE: PUB. COUNTRY: CORPORATE SOURCE: Angiogenesis and bone repair.
Carano Richard A D; Filvaroff Ellen H
Department of Physiology, Genentech, 1 DNA Way MS
San Francisco, CA 94080, USA. General Review; (REVIEW) Drug discovery today, (2003 Nov 1) Vol. 21, pp. 980-9. Ref: 152 Journal code: 9604391. ISSN: 1359-6446. Priority Journals **English** England: United Kingdom Journal; Article; (JOURNAL ARTICLE) (2003 Nov 1) Vol. 8, No. The long-awaited 42,

ACCESSION NUMBER: 2003543176 MEDLINE
DOCUMENT NUMBER: PubMed ID: 146:33404
TITLE: AUTHOR: Collagen sponges for bone regeneration with rhBMP-2.
AUTHOR: Collagen sponges for bone regeneration with rhBMP-2.
AUTHOR: Collagen sponges for bone regeneration with rhBMP-2.
CORDENTE SOURCE: Drug Product Development, Wyeth BioPharma, One Burtt Road, Andover, MA 0.1810, USA. mgelger@wyeth.com
Advanced drug delivery reviews, (2003 Nov 28)
Vol. 55, No. 12, pp. 1613-29. Ref: 1.08
PUB. COUNTRY: Vol. 55, No. 12, pp. 1613-29. Ref: 1.08
DOCUMENT TYPE: Journal code: 8710523. ISSN: 0169-409X.
Wetherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
FILE SEGMENT: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: DROADS
ENTRY DATE: Entered STN: 19 Nov 2003
Last Updated on STN: 20 May 2004

ENTRY DATE: Entered STN: 19 Nov 2003

Entered STN: 20 May 2004

Entered Medline: 19 May 2004

Entered Medline: 19 May 2004

AB In the US alone, approximately 500,000 patients annually undergo surgical procedures to treat bone fractures, alleviate severe back pain through spinal fusion procedures, or promote healing of non-unions. Many of these procedures involve the use of bone graft substitutes. An alternative to bone grafts are the bone morphogenetic proteins (BMPs), which have been shown to induce bone formation. For optimal effect, BMPs must be combined with an adequate matrix, which serves to prolong the residence time of the protein and, in some instances, as support for the invading osteoprogenitor cells. Several factors involved in the preparation of adequate matrices, specifically collagen sponges, were investigated in order to test the performance in a new role as an implant providing local delivery of an osteoinductive differentiation factor. Another focus of this review is the current system consisting of a combination of recombinant human BMP-2 (rhBMP-2) and an absorbable collagen sponge (ACS).

The efficacy and safety of the combination has been clearly proven in both

L5 ANSWER 11 OF 77 MEDLINE ON STN ACCESSION NUMBER: 2003533989 MEDLINE

LANGUAGE:
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ENTRY MONTH:
ENTRY DATE: ₽ ENTRY DATE:

Entered STN: 13 Nov 2003

Entered Mediline: 20 Nov 2003

Entered Mediline: 20 Nov 2003

Entered Mediline: 20 Nov 2003

AB The goal of periodontal therapy is to protect and maintain the patient's natural dentition for his or her lifetime. More specifically, after periodontal regenerative surgery, the aim is to achieve complete wound healing and regeneration of the periodontal unit. A recent innovation in dentistry is the preparation and use of platelete-rich plasma (PRP), a concentrated suspension of the growth factors found in platelete. These growth factors are involved in wound healing and are postulated as promoters of tissue regeneration. This clinical update outlines the specific effects of these growth factors, both in vitro and in vivo, on periodontal wound healing. The review focuses on current animal and human trials using PRP to promote tissue regeneration and alveolar bone repair. The article goes on to describe the clinical benefits of PRP and the step-by-step preparation of PRP PUB. COUNTRY: SOURCE: CORPORATE SOURCE: DOCUMENT NUMBER: in the dental office Tozum Tolga Fikret; Demiralp Burak
Department of Periodontology, Faculty of Dentistry,
Hacettepe University, Sihniye-Ankara, Turkey.
ttozum@hacettepe.edu.tr English Journal (Canadian Dental Association), (2003 Nov)
Vol. 69, No. 10, pp. 664. Ref: 96
Journal code: 7907605. E-ISSN: 1488-2159. General Review; (REVIEW) Canada Dental Journals; Priority Journals Journal; Article; (JOURNAL ARTICLE) Platelet-rich plasma: a promising innovation in dentistry. PubMed ID: 14611717

TITLE: ENTRY MONTH: ENTRY DATE: FILE SEGMENT: LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 12 OF 77 Molen-Afshari Razzad, McManus Bruce M; Laher Ismail Department of Pharmacology and Therapeutics, Faculty of Mcdacine, University of Butish Columbia, 2176 Health Sciences Mall, Vancouver, BC Canada V6T 123. Pharmacology & therapeutics, (2003 Nov) Vol. 100, No. 2, pp. 141-56. Ref: 192
Journal code: 7905840. ISSN: 0163-7258. 2003532632 MEDLINE PubMed ID: 14609717 Immunosuppression and transplant vascular disease: benefits England: United Kingdom
Journal; Article; (JOURNAL ARTICLE) Priority Journals General Review; (REVIEW) 200404 English and adverse effects. MEDLINE on STN Faculty of

ENTRY DATE:

Entered STN: 13 Nov 2003

Entered Medline: 1 Apr 2004

AB Cardiac allograft vasculopathy (CAV) occurs within 5 years of transplantation surgery and represents the main cause of death in long-term heart transplant survivors. The detailed pathogenesis of CAV is unknown, but there are strong indications that immunologic mechanisms, which are regulated by nonimmunologic factors, are the major cause of this phenomenon. Cyclosporine A (CBA) is a frequently used immunosuppressive agent in transplant medicine to prevent rejection. The mechanism of action of CBA involves initial binding to cyclophilin to form a complex that then inhibits calcineurin (CN), leading to reduced interleukin (IL)-2 production as part of the signal transduction pathway for the activation of B-lymphocytes and T-lymphocytes. Based on this proposed mechanism, it

suggested for the ineffectiveness of CSA in long-term prevention of CAV. For example, routine therapeutic doses of CSA in long-term prevention of CAV. Incompletely (50%), whereas complete blockade requires doses that are not clinically tolerable. Another explanation is the possible activation of T-cell receptors directly (CN independent) by the immune response, which induces protein kinase C theta (PKCtheta) and leads to LI-2 production and immune rejection. Moreover, there may be a role for nonimmunologic mechanisms, such as complement, which cannot be controlled by CSA, or CSA may cause hypercholesterolemia or induce overexpression of transforming growth factor-beta (TGF beta). This review also compares the effect of CSA with other immunosuppressants in allograft artery preservation and their clinical efficacy. was expected that CsA should be an effective strategy in attenuating the host immune response against transplanted allograft tissue; however, CsA has not changed the outcome of CAV. Several mechanisms have been

CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: **ANSWER 13 OF 77** Interdisciplinary Center for Biomedical Research (CIR) Laboratory of Ophthalmology, University of Rome Campus Bio-Medico, and G.B. Bietti Eye Foundation, Italy. Bonini Stefano; Lambiase Alessandro; Sgrulletta Roberto; Bonini Sergio 2003510322 MEDLINE
PubMed ID: 14501439
Allergic chronic inflammation of the ocular surface in
vernal keratoconjunctivitis. MEDLINE on STN

PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE: Journal code: 100936359. ISSN: 1528-4050. United States Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) opinion in allergy and clinical immunology, t) Vol. 3, No. 5, pp. 381-7. Ref: 56

sbonini@mclink.it

Priority Journals

FILE SEGMENT:

ENTRY MONTH: ENTRY DATE:

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ENTRY DATE:

Last Updated on STN: 19 Feb 2004

Entered Mediline: 18 Feb 2004

AB PURPOSE OF REVIEW: The purpose of this review is to describe the new immunopathologic features of vernal keratoconjunctivitis. the involvement of cytokines, growth factors, cells, mediators and neurotransmitters, as well as the mechanism leading to tissue remodelling. RECENT FINDINGS: Vernal keratoconjunctivitis is an allergic eye disease affecting young boys living in a warm climate. It is characterized by conjunctivitis do not have a family or medical history of atopic diseases, and do not show IgE sensitization, suggesting that this disease is not solely IgE mediated. Vernal keratoconjunctivitis is a Th2 lymphocyte driven disease with a Th2 cytokine derived pattern, increased levels of mRNA for IL-3, IL-4, IL-5 and IL-13. Th2 lymphocytes induce IgE hyperproduction, activation of mast cells, eosinophils, neutrophils and their toxic products. An overexpression of adhesion molecules, RANTES, for other growth factor and retard transforming growth factor has been postulated, as well as for other growth factors (epidermal growth factor, fibroblast growth factor and transforming growth factor beta such as epithelial cells and fibroblasts, in the inflammatory and remodelling process of vernal keratocrial, with the interaction of the immune, nervous and endocrine systems. SUMMARY: Vernal

keratoconjunctivitis is a chronic inflammatory and potentially blinding disease. Understanding of the complex interactions and cross talk between cells, cytokines and other mediators is relevant for new approaches.

DOCUMENT NUMBER: ACCESSION NUMBER: PubMed ID: 14582671
The hair follicle and immune privilege. 2003505268 MEDLINE on STN MEDLINE

CORPORATE SOURCE: Paus Ralf; Ito Natsuho; Takigawa Masahiro; Ito Taisuke Department of Dermatology, University Hospital, Hamburg-Eppendorf, University of Hamburg, Hamburg, Germany.. paus@uke.uni-hamburg.de

Inc. (and) European Society for Dermatological Research, (2003 Oct) Vol. 8, No. 2, pp. 188-94. Ref: 60
Journal code: 9609059. ISSN: 1087-0024. Germany. paus@uke.uni-hamburg.de The journal of investigative dermatology. Symposium proceedings / the Society for Investigative Dermatology.

PUB. COUNTRY: General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE) United States

LANGUAGE: DOCUMENT TYPE: English

ENTRY DATE: ENTRY MONTH: FILE SEGMENT: Priority Journals

ΑВ

Entered STN: 30 Oct 2003

Entered STN: 30 Oct 2003

Entered STN: 30 Oct 2003

Entered Medline: 2 Jun 2004

Entered Medline: 2 Jun 2004

AB This essay reviews the available evidence that the proximal hair follicle epithelium generates and maintains an area of relative immune privilege during a defined segment of the hair cycle (i.e., during anagen). This immune privilege is chiefly characterized by a very low level of expression of MHC class Is antigens and by the local production of potent immunosuppressive agents, such as alpha-MSH and TGF betal. We discuss the putative functions of immune privilege serves mainly to sequester anagen and/or melanogenesis-associated autoantigens from immune recognition by autoreactive CD8+ T cells. On this basis, we develop how the "immune privilege collapse model" of alogecia areata pathogenesis was conceived. In our discussion of the clinical implications of immune privilege, we outline the currently available evidence in support of this still hypothetical scenario to explain the initiation, progression, and termination of alogecia areata lesions. We review the most recent evidence from our laboratory that alpha-MSH, IGF-1, and TGF-betal can downregulate

IFM gamma-induced ectopic MHC class I expression in human anagen hair bulbs in vitro. Finally, we suggest that hair follicle-derived alpha-MSH, IGF-gamma, and TGF-betal form part of a constitutively active "recruited whenever the hair follicle suffers immune injury. Finally, we sketch some particularly promising avenues for future investigation into the far too long ignored hair follicle immune privilege.

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: ANSWER 15 OF 77 MEDLINE on STN

AUTHOR: CORPORATE SOURCE: 2003502193 MEDLINE
PubMed ID: 14519579
The role of the combination of IL-2 and TGF-beta
Or IL-10 in the generation and function of CD4+ CD25+ and
CD8+ regulatory T cell subsets.
Horwitz David A; Zheng Song Guo; Gray J Dixon
Division of Rheumatcology and Immunology, Department of
Medicine, Keck School of Medicine of the University of
Southern California, Los Angeles 90033-1034, USA...

Journal of leukocyte biology, (2003 Oct) Vol. 74

ENTRY MONTH: ENTRY DATE: LANGUAGE: DOCUMENT TYPE PUB. COUNTRY: SEGMENT: No. 4, pp. 471-8.
Journal code: 8405
United States Journal; Article; (JOURN General Review; (REVIEW) code: 8405628. ISSN: 0741-5400.

ENTRY DATE:

Last Updated on STN: 19 Dec 2003

Ratered Medline: 18 Nov 2003

AB Recently, considerable attention has been focused on thymus-derived CD4+
regulatory T cells that constitutively express CD25 and have a
contact-dependent, cytokine-independent mechanism in vitro. However,
pripheral CD4+ and CD8+ T cells can also be induced to become regulatory
T cells. Here we review our studies using the combination of
IL-2 and transforming growth factor beta (
TGF-beta) to generate regulatory T cell subsets ex vivo, and the
work of others using IL-10 to induce suppressive activity. Under certain
conditions, the autocrine effects of TGF-beta and IL-10 induce
peripheral T cells to produce immunosuppressive levels of each of these
cytokines. This effect of TGF-beta is IL-2 dependent. Under
other conditions IL-2 and TGF-beta can induce CD4+ cells to
develop potent contact-dependent, cytokine-independent regulatory
activity. At present, there is considerable confusion concerning the
mechanism of action of CD4+ CD25+ cells because cytokine-producing
regulatory T cells generated in the periphery can express CD25 and other
markers displayed by naturally occurring, thymus-derived regulatory T
cells. We, therefore, propose a nomenclature that identifies
thymus-derived and peripheral regulatory cells, and that also
differentiates T regulatory cells from T helper cells. Because T
regulatory cell function are also reviewed. Finally, the
immunotherapy for certain autoimmune diseases, to prevent organ
graft rejection, or to prevent pathologic host responses to infectious
agents is discussed.

DOCUMENT NUMBER: SOURCE: CORPORATE SOURCE: ACCESSION NUMBER: ANSWER 16 OF 77 387-91. Ref: 71
Journal code: 0421406. ISSN: 0001-7868.
Germany: Federal Republic of
Journal; Article; (JOURNAL ARTICLE) 2003500669 MEDLI PubMed ID: 14579185 Hauck E W, Hauptmann A, Haag S M, Weidner W Justus-Liebig-Universitat Giessen, Klinik ur fur Urologie und Kinderurologie, Giessen Aktuelle Urologie, (2003 Oct) Vol. 34, No. 6 Peyronie's Disease]. Neue Aspekte zur Atiopathogenese der Induratio penis plastica [New Insights into the Etiological Pathogenesis of MEDLINE on STN MEDLINE Klinik und Poliklinik

ENTRY DATE: ENTRY MONTH: DOCUMENT TYPE: FILE SEGMENT: ANGUAGE: Priority Journals German General Review; (REVIEW) 200404

ACCESSION NUMBER: 18 OF 77 ACCESSION NUMBER: 18 DOCUMENT NUMBER: 19

2003491107 MEDL PubMed ID: 14569209

MEDLINE

MEDLINE on STN

CORPORATE SOURCE:

The role of chemokines in the pathogenesis of scleroderma. Atamas Sergei P: White Barbara Baltimore Veterans Administration Medical Center, Department of Medicine, University of Maryland School of Medicine, Baltimore, Maryland 21201, USA.

satamas@umaryland.edu

PUB. COUNTRY:

Y DATE:

Entered STN: 28 Oct 2003

Last Updated on STN: 23 Apr 2004

Entered Medilne: 22 Apr 2004

This paper reviews the current knowledge of the etiological pathogenesis of Peyronie's disease. De la Peyronie himself supposed a connection with venereal diseases. Herein, infectious, traumatic, autoimmune and genetic causes are discussed. An important hypothesis is that the recurrent microtraumatisation of the tunica

B

albuginea during sexual intercourse leads to small legions that activate processes of wound healing and development of fibrotic plaque. According to recent data, an association with the antigens of the HLA-system could be ruled out. Transforming growth factor beta (TGF-beta) seems to have an important impact due to its increased expression in the plaque. Furthermore it is possible to induce a condition similar to Peyronie's disease by intratunical injection of cytomodulin - a substance with TGF-beta-like activity - in an animal model. As in other fibrotic diseases, an imbalance between nitric oxide (NO) and reactive oxygen species (ROS) seems to be of importance. The most important new insights were gained from cell-culture models in which increased expression of basic fibroblast growth factor instability were observed.

ENTRY DATE:

Entered STN: 23 Oct 2003

Entered Nedline: 19 Apr 2004

Entered Medline: 19 Apr 2004

Entered Medline: 19 Apr 2004

AB Intestinal failure (IF) refers to the condition in which certain causes lead to derangements in nutrient absorption capacity. Gut adaptation occurs in response to IF and it is both morphologic and physiologic in nature and can be mediated by growth factors and nutrients. Our paper reviews certain trophic growth factors that have important interactions relevant for intestinal growth, function and adaptation.

DATA SOUNCE: The literature was reviewed (data from both animal and human studies) and certain trophic factors that modulate intestinal adaptation are summarized. The factors reviewed are: epidermal growth factor, insulin-like growth factor I and II, transforming growth factor, insulin-like growth factor I and II, transforming growth factor, insulin-like growth factor; human growth hormone, short-chain fatty acids, and glutamine. CONCLUSIONS: Growth factors augment intestinal proliferation, diminish programmed apoptosis, and modulate the adaptive process. They also have the potential to improve nutrient absorption in some bowel disease. The enhancement of gut adaptation may allow patients to transition of parenteral/enteral to normal nutrition, in a shorter period of time, which reduce the rate of adverse effects caused by artificial nutrition and improve quality of life. ENTRY MONTH: ENTRY DATE: FILE SEGMENT: LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: CORPORATE SOURCE: DOCUMENT NUMBER: L5 ANSWER 17 OF 77 ACCESSION NUMBER: Thessaloniki, Greece. keva@med.auth.gr Digestive diseases (Basel, Switzerland), Vol. 21, No. 3, pp. 228-36. Ref: 119 Journal code: 8701186. ISSN: 0257-2753. PubMed ID: 14571096 Factors enhancing intestinal adaptation after bowel Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Switzerland 4th Surgical Clinic, Aristotle University of Thessaloniki, Botsios D S; 200404 Priority Journals 2003493774 MEDLINE on STN Vasiliadis K D MEDLINE

ENTRY DATE:

Last Updated on STN: 7 Feb 2004

Entered Medline: 6 Feb 2004

AB PURPOSE OF REVIEW: The triad of pathologic changes that defines systemic sclerosis (scleroderma) includes immune system activation with autoimmunity; an obliterative, proliferative small vessel vasculopathy; and fibrosis. Available data suggest that several cytokines, including chemokines, contribute to the development of scleroderma complications. This review focuses on chemokines and their contribution to tissue fibrosis and pulmonary hypertension in scleroderma. RECENT FINDINGS: Proteins and maNAs for monocyte chemoattractant protein-1; pulmonary and activation-regulated chemokine; macrophage inflammatory protein-1, regulated upon activation normal T cell expressed and secreted; interleukin-8; and transforming growth factor beta have been found in increased amounts in blood or involved tissue firom scleroderma patients. These factors are likely to contribute directly to tissue damage in scleroderma through several pathways, including stimulation of extracellular matrix production, induction of To-beta production and activation, and chemoattraction of T cells and nonspecific inflammatory cells into tissues. SUMMARY: Multiple chemokines are part of the pathologic network that causes tissue damage in scleroderma, and, as such, may provide therapeutic targets in B ENTRY MONTH: ENTRY DATE: FILE SEGMENT: DOCUMENT TYPE: CONTRACT NUMBER: LANGUAGE: PUB. COUNTRY: General Review; (REVIEW) Current opinion in rheumatology, (2003 Nov) Vol. 15, No. 6, pp. 772-7. Ref: 53
Journal code: 9000851. ISSN: 1040-8711. Priority Journals Journal; Article; (JOURNAL ARTICLE) United States 1R03AR47110 (NIAMS)

DOCUMENT TYPE: DOCUMENT NUMBER: CONTRACT NUMBER: CORPORATE SOURCE L5 ANSWER 19 OF ACCESSION NUMBER: 77 DK54143 (NIDDK)
DK54608 (NIDDK)
EX11825 (NEI)
Archives of biochemistry and biophysics, (2003 Nov
1) Vol. 419, No. 1, pp. 25-30. Ref: 84
Journal code: 0372430. ISSN: 0003-9861. 2003490604 MEDLINE PubMed ID: 14568005 General Review; (REVIEW) United States Journal; Artic Institute Cohen Margo P glycated albumin. Intervention strategies to prevent pathogenetic effects of MEDLINE on STN ute for Metabolic Research, University City Science, 3508 Market Street, Suite 420, Philadelphia, PA USA. drmpcohen@aol.com l; Article; (JOURNAL ARTICLE)

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ₽ Last Updated on STR: 19 Dec 2003

Entered Medline: 11 Dec 2003

Modification of proteins by nonenzymatic glycation is one of the underlying factors contributory to the development of complications of diabetes. In general, the nature of this structural modification falls into two broad categories: nonenzymatic glycation per se, which refers to the attachment of free carbohydrate to proteins in the Amadori construct, and Advanced Glycation Endproducts (AGE), which refers to a heterogeneous group of carbohydrate-modified products generated from the Amadori adduct Entered STN: 22 Oct 2003 Priority Journals

DOCUMENT NUMBER:

ACCESSION

ANSWER 21 OF 77

important role in preventing carcinogenesis.

CORPORATE SOURCE

AUTHOR:

Peng Chun

PUB. COUNTRY:

Journal of obstetrics and gynaecology Canada : JOGC Journal d'obstetrique et gynecologie du Canada : JOG (2003 Oct) Vol. 25, No. 10, pp. 834-44. Ref: 135 Journal code: 101126664. ISSN: 1701-2163.

Department of Biology, York University, Toronto, ON,

The TGF-beta superfamily and its roles in the human overy and placenta.

2003470386 MEDLINE PubMed ID: 14532952

MEDLINE on STN

LANGUAGE:

by oxidation, polymerization, and other spontaneous reactions. This review will focus on the role of nonenzymatically glycated proteins, and in particular glycated serum albumin, in the pathogenesis of diabetic complications, and on pharmacologic approaches to mitigate their deleterious effects. Potential intervention strategies to lessen the influence of ACE-modified proteins, as well as of other contributory abnormalities, are discussed elsewhere in this volume.

ENTRY DATE:

Entered STN: 10 Oct 2003

Entered Medline: 10 Jun 2004

AB Pancreaticobiliary maljunction (PBM) is a congenital anomaly with a high incidence of biliary tract carcinoma. Pathological findings strongly suggest: that there is a hyperplasia-dysplasia-carcinoma sequence in carcinogenesis of PBM. A molecular biological analysis revealed high incidence of cellular proliferation activating factors such as TGF -alpha, COX-2 from the hyperplasia stage. In addition, cellular proliferative activity including BrdU, AgNDR, PCNA, and Ki-67 was significantly higher in regular gallbladder mucosa without PBM. Furthermore, a high incidence of K-ras gene mutation could be seen in hyperplasia (13-63%) and microsatellite instability could be observed in 60% of all cases in dysplasia. In cancerous lesions, a high rate of overexpression of cyclin D1, beta-catenin, p53, as well as p53 gene mutation has been recognized. These results suggest that a multistep carcinogenetic process contributes to the carcinogenesis of PBM, similar resection of the extrahepatic bile duct is performed, carcinogenesis in the remmant biliary tract or pancreatic duct is rarely found. Whether the carcinogenesis is a result of the accumulation of gastrointestinal juice due to hepaticoenterostomy, remains unknown. Since a high frequency immortant role in neverting errinogenesis. AВ ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: CORPORATE SOURCE: AUTHOR: FILE SEGMENT: LANGUAGE: TITLE: DOCUMENT ACCESSION NUMBER: ANSWER 20 OF 77 NUMBER: Carcinogenetic process in gallbladder mucosa with pancreaticobiliary maljunction (Review).
Tsuchida Akihiko; Itol Takao; Aoki Tatsuya; Koyanagi Department of Surgery, Tokyo Medical University, Tokyo 160-0023, Japan. akibobo@hotmail.com Oncology reports, (2003 Nov-Dec) Vol. 10, No. 6, pp. 1699-9. Ref: 51 2003472557 MEDLI PubMed ID: 14534681 Greece Priority Journals English General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE) Journal code: 9422756. ISSN: 1021-335X. 200406 MEDLINE on STN MEDLINE

ENTRY DATE: Entered STN: 9 Oct 2003

Entered STN: 27 Jan 2004

Entered Medline: 26 Jan 2004

Entered Medline: 26 Jan 2004

Entered Medline: 26 Jan 2004

AB The transforming growth factor-beta (
TGF-beta) superfamily consists of a large group of growth and differentiation factors of a large group of growth and differentiation factors (GDFs), and bone morphogenetic proteins (gNPs). These molecules act through specific receptor complexes that are composed of type I and type II serine/threenine receptor kinases. The receptor kinases subsequently activate Smad proteins, which then propagate the signals into the nucleus to regulate target gene expression. Several ligands in this family, such as TGF-betas, activing, inhibins, BMP-15, and GDF-9, play important roles in regulating human ovarian functions, including follicle development and maturation. Activin and TGF-beta are also involved in regulating placental development and functions. Abnormal expression or function of these ligands has been summarizes the role of the TGF-beta superfamily in human ovarian and placental regulation and function, and the potential clinical ENTRY MONTH: ENTRY DATE: LANGUAGE: FILE SEGMENT: DOCUMENT TYPE General Review; (REVIEW) English Journal; Article; (JOURNAL ARTICLE)

ENTRY MONTH: ENTRY DATE: DOCUMENT NUMBER: L5 ANSWER 22 OF 77 ACCESSION NUMBER: LANGUAGE: DOCUMENT TYPE: CORPORATE SOURCE: FILE SEGMENT: PUB. COUNTRY: Translational research in lung cancer.
Chen Yuhchyau, Okunieff Baul; Ahrendt Steven A
Department of Radiation Oncology, University of Rochester
Medical Center, Rochester, New York 14642, USA..
yuhchyau@urmc.rochester.edu
Seminars in surgical oncology, (2003) Vol. 21,
No. 3, pp. 205-19. Ref: 73 General Review; (REVIEW)
English
Priority Journals 2003447841 Journal; Article; (JOURNAL ARTICLE) United States PubMed ID: 14508854 MEDLINE on STN code: 8503713. ISSN: 8756-0437. MEDLINE

ENTRY DATE:

Entered STN: 26 Sep 2003

Last Updated on STN: 11 Feb 2004

Entered Medline: 10 Feb 2004

AB Recent research advances in cancer and molecular biology have furthered our understanding of the etiology and natural history of lung cancer. Through translational research, a growing understanding of the molecular changes that underlie cancer progression has contributed to the development of novel molecular approaches for early detection, further defining prognosis, refining treatment schedules, identifying new therapeutic targets, and identifying patients at risk for treatment-related toxicity from aggressive therapy, such as pneumonitis and esophagitis. In this article, we review progress in molecular/gene screening and prognosis, and we present a clinical study, based on preclinical research, in which we apply low-dose radiosensitizing paclitaxel for locally advanced non-small-cell lung cancer (NSCLC); this resulted in superior local tumor control while keeping treatment toxicity low. We also review progress made in identifying cytckines: interleukin [IL]-lalpha, IL-6, and transforming growth factor [TGF] beta as markers for lung cancer treatment-related radiation pneumonitis. Finally, we summarize different targeted therapy approaches and discuss their application to clinical trials. Irrespective

of the slow progress toward clinical improvements, we have gained much knowledge through translational research using new molecular and biologic technology. We believe that knowledge of lung cancer biology will continue to provide the foundation for future improvements in lung 2003 Wiley-Liss, Inc.

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: æ ENTRY DATE:

Entered STN: 24 Sep 2003

Entered Medline: 4 Dec 2003

Angiogenesis, the formation of new blood vessels, is required for the growth and expansion of tumours. Gliomas, the most common brain tumours, are particularly highly vascularized and, therefore, serve as a model to elucidate the process of tumour angiogenesis and to investigate new anti-angiogenic fatcrors in glioma angiogenesis and new strategies to inhibit glioma growth by application of anti-angiogenic substances. We focus on vascular endothelial growth factor (VEGF), but also examine the role of angiogenetis nand pleiotroppic factors such as platelet-derived growth factor (PEGF), pleiotroppin and transforming growth factor (PEGF), pleiotroppin and transforming growth factor (PEGF), pleiotrophin and transforming growth factor (PEGF) beta). Strategies to inhibit glioma growth by reducing the action of angiogenic factors, by the application of anti-angiogenic substances such as angiostatin or endostatin, or inactivation of endothelial cells, are discussed. These new anti-angiogenic theraptes appear to have a high potential not only for the treatment of gliomas, but also of other tumours. LANGUAGE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: DOCUMENT TYPE: PUB. COUNTRY: Mentlein Rolf; Held-Feindt Janka
Anatomisches Institut, Universitat Kiel, Olshausenstrasse
Anatomisches Institut, Universitat Kiel, Olshausenstrasse
40, 24098 Kiel, Germany. rement@anat.uni-kiel.de
Die Naturwissenschaften, (2003 Sep) Vol. 90, No.
9, pp. 385-94. Electronic Publication: 2003-07-29. Ref: 89
Journal code: 0400767. ISSN: 0028-1042.
Germany. Federal Republic of
Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) English Priority Journals PubMed ID: 14504780 2003444588 Angiogenesis factors in gliomas: a new key to tumour MEDLINE on STN MEDLINE

ENTRY MONTH: ENTRY DATE: FILE SEGMENT: LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE SOURCE: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: **ANSWER 24 OF 77** Entered STN: 23 Sep 2003

Last Updated on STN: 19 Feb 2004

Entered Medline: 18 Feb 2004

REVIEW: Mast cells and eosinophils are the main 2003440095 MEDLINE
PubMed ID: 14501440
Fibrosis in ocular allergic inflammation: recent concepts
in the pathogenesis of ocular allergy.
Solomon Abraham, Puxedou Ilaria; Levi-Schaffer Francesca
Solomon Abraham, Puxedou Ilaria; Levi-Schaffer Francesca Current opinion in allergy and clinical immunology, (2003 Oct) Vol. 3, No. 5, pp. 389-93. Ref: 44 Journal code: 100936359. ISSN: 1528-4050. Department of Ophthalmology, Hadassah University Hospital.
Jerusalem, Israel. Priority Journals English General Review; (REVIEW) United States 200402 MEDLINE on STN Article; (JOURNAL ARTICLE)

PURPOSE OF

effector cells in allergic inflammation, but there is now compelling evidence that fibroblasts are also important players in the inflammatory response. In fact, they respond to different stimuli and release several mediators that modulate mast-cell and eosinophil functionality. In several allergic conditions such as vernal keratoconjunctivitis, asthma and atopic dermatitis the chronic presence of the inflammatory process has been associated with fibrosis and tissue remodeling, which in turn could cause irreversible alterations in the organ anatomy and functions. This review will discuss current advances in mast cell, eosinophil and fibroblast interactions in terms of their importance in the perpetuation of allergic inflammation and in contributing to the fibrosis and/or remodeling process in ocular allergy. As a main example of allergic ocular diseases associated with fibrosis, vernal keratoconjunctivitis is discussed in the light of recent findings. RECENT FINDINGS: Several studies have recently shown that fibroblasts can modulate the functions of mast cells and eosinophils through the membrane form of stem cell factor and granulocyte-macrophage colony-stimulating inflammatory mediators derived from mast cells and eosinophils, such as transforming growth factor beta and nerve growth factor and by the Thelper type 2 cytokines, IL-4 and IL-13, and vernal keratoconjunctivitis-derived fibroblasts display altered functions. Summary: Considerable useful information has been gained about the role of inflammation and tissue tibrosis and/or remodeling in general, and specifically in ocular allergy.

LANGUAGE: FILE SEGMENT: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 25 OF 77 transplantation.
Jonuleit Helmut; Adema Gosse; Schmitt Edgar
Jonuleit Helmut; Adema Gosse; Schmitt Edgar
Department of Dermatology, University of Mainz, Hochhai
Augustusplatz, Langenbeckstr. 1, 55101 Mainz, Germany.
Transplant immunology, (2003 Jul-Sep) Vol. 11,
No. 3-4, pp. 267-76. Ref: 65
Journal code: 9309933. ISSN: 0966-3274.
England: United Kingdom
Journal; Atticle; (JOURNAL ARTICLE) General Review; (REVIEW)
English
Priority Journals MEDLINE on STN 2003427653 MEDLINE PubMed ID: 12967780 Immune regulation by regulatory T cells: implications for Hochhaus am

ENTRY DATE:

Entered STN: 12 Sep 2004

Entered Medline: 26 Apr 2004

Entered Medline: 26 Apr 2004

AB The induction of antigen-specific T cell tolerance and its maintenance in the periphery are critical for the immune system to prevent autoaggressive immune responses. Our current state of knowledge about the immunoregulatory mechanisms responsible for T cell tolerance in the periphery offers new possibilities for immunomodulation to prevent transplant rejection as well as to diminish autoimmune reaction or chronic allergy. There is growing evidence that dendritic cells, besides their tolerance in the periphery. This control function is exerted by certain maturation stages and subsets of dendritic cells, and can be further influenced and modulated by immunoregulatory cytokines and drugs. The regulatory functions of dendritic cells include the induction of T cell anergy, of T cells with regulatory properties and of T cells timmunosuppressive cytokines such as IL-10 or TGF-beta.

Additionally, distinct subsets of resident regulatory T cells generated in the thymus play a central role in maintenance of peripheral tolerance by active suppressive of effector T cell populations. These CD4 (+)CD35(+) regulatory T cells inhibit a variety of autoimmune and inflammatory

FILE SEGMENT

Priority Journals

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ENTRY MONTH: ENTRY DATE:

diseases and they are also efficient in the suppression of alloantigen responses. This review summarises the current knowledge regarding the immunoregulatory role of dendritic cells and the functional activities of resident regulatory T cells as guardians for peripheral T cell tolerance.

ENTRY DATE:

Entered SIN: 5 Sep 2003

Entered Medline: 21 Jan 2004

AB Pseudarthrosis remains a significant problem in spinal fusion. The objective of our study was to investigate the effects of autologous growth factors (AGF) in instrumented transformainal lumbar interbody spinal fusion (TLIF). A prospective review was carried out of 23 patients who underwent TLIF with application of AGF, with a minimum 2-year follow-up. Comparison with our historical cohort (without AGF application) was performed. Mean age at surgery was 44.3 years in the AGF treatment group. Twelve had a positive smoking history. Fourteen had undergone previous spinal surgeries. Thirteen received one-level fusions and ten received two-level fusions and 90% in two-level showed a fusion rate of 100% in one-level fusions and 90% in two-level fusions. There was no significant difference in pseudarthrosis rates between the AGF treatment group and historical cohort.

Excluding the cases with pseudarthrosis, there was faster bony healing in patients who had been treated with AGF application. This study indicates that although AGF may demonstrate faster fusions it does not result in an overall increase in spinal fusion rates. Further studies are needed before AGF can routinely be used as an adjunct in spinal fusion. ₽ PUB. COUNTRY: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ENTRY MONTH: ENTRY DATE: FILE SEGMENT: DOCUMENT TYPE: CORPORATE AUTHOR: TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: LANGUAGE: ANSWER 26 OF 77 SOURCE: PubMed ID: 12916316
Growth factor and regeneration of intervertebral disc.
Wang Fei, Qu Dong-bin, Jin Da-di
Department of Spine Surgery, Nanfang Hospital, First
Department of Spine Surgery, Confidence of Spine Surgery, Nanfang Hospital, First
Department of Spine Surgery, Nanfang Hospital, First
Department of Spine Surgery, Nanfang Hospital, First European spine journal: official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society, (2003 Aug) Vol. 12, No. 4, pp. 400-7. Electronic Publication: 2003-05-22. Journal code: 9301980. ISSN: 0940-6719. Hee Hwan T; Majd Mohammad E; Holt Richard T; Myers Leann Spine Surgery PSC, Louisville, Kentucky, USA.. hwantak@hotmail.com 2003415346 MEDLINE .
PubMed ID: 12761669
Do autologous growth factors enhance transforaminal lumbar interbody\_fusion?. Zhongguo xiu fu chong jian wai ke za zhi = Zhongguo xiufu chongjian waike zazhi = Chinese journal of reparative and reconstructive surgery, (2003 Jan) Vol. 17, No. 1, pp. 73-5. Ref: 22 Journal code: 9425194. ISSN: 1002-1892. Germany: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE) 2003381119 General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE) 510515. 200401 English Priority Journals MEDLINE on STN MEDLINE

ENTRY MONTH: ENTRY DATE:

ENTRY DATE:

Entered STN: 15 Aug 2003

Last Updated on STN: 18 Dec 2003

Entered Medline: 17 Dec 2003

AB OBJECTIVE: To review research progress of the relation between growth factor and repair of intervertebral disc. METHODS: The recent articles on growth factor and repair of intervertebral disc were extensively reviewed. The expression of growth factor in intervertebral disc and the effect of growth factor on disc cells were investigated. RESULTS: Some growth factors play roles in the development and degeneration of intervertebral disc. Exogenous growth factor can be transferred to intervertebral disc cells by adenovirus. CONCLUSION: Growth factor plays an important role in the regulation of development and degeneration of intervertebral disc. The above results show that the feasibility of usage of growth factor in the treatment of disc degeneration and in repair and reconstruction of

DOCUMENT NUMBER: L5 ANSWER 28 OF ACCESSION NUMBER: 77 7 MEDLINE ON STN 2003373399 MEDLI Pubmed ID: 12846694 MEDLINE

Camurati-Engelmann disease. Review of radioclinical features.

Vanhoenacker F M; Janssens K; Van Hul W; Gershoni-Baruch

₽ ;

CORPORATE SOURCE: Brik R; De Schepper A M
Department of Radiology, University Hospital Antwerp,
Edegem, Belgium. filip.vanhoenacker@planetinternet.be
Acta radiologica (Stockholm, Sweden: 1987), (2003
Jul) Vol. 44, No. 4, pp. 430-4.
Journal code: 8706123. ISSN: 0284-1851.

Priority Journals Journal; Article; (JOURNAL ARTICLE)

ENTRY DATE: FILE SEGMENT: ENTRY MONTH: PUB. COUNTRY: DOCUMENT TYPE:

₿ EMTRY DATE:

Entered STN: 12 Aug 2003

Entered Medline: 29 Aug 2003

AB PURPOSE: To present a retrospective overview of the clinical and radiological features of Camurati-Engelmann disease (CED) in a large family with genetically proven CED. MATERIAL AND METHODS:

Clinical features and imaging studies were available in 8 affected patients out of a large Jewish-Iraqi family with 21 affected members in four generations. The patients' ages ranged between 7 and 44 years.

RESULTS AND CONCLUSIONS: The most frequent symptoms were pain and muscle weakness accompanied by waddling gait. Two patients were pain and muscle weakness accompanied by waddling gait. Two patients were pain and muscle of the long bones was seen in all 8 patients, but in 1 patient, metaphyseal involvement was observed as well. Radioclinical abnormalities were most often detected before the age of 30, and were usually more extensive at older age. Radiological abnormalities may precede the clinical signs. Concomitant broadening of the diaphyses of long bones and narrowing of the medullary canal suggest that both an excessive periosteal apposition of bone and a defective resorption of bone at the endosteal side of the long bones exist.

ACCESSION NUMBER: **ANSWER 29 OF 77** 

7 MEDLINE on STN
2003369279 MEDLINE
PubMed ID: 12903835
Molecular biologic aspects of cartilage and bone: potential

clinical applications. Engstrand Thomas

CORPORATE SOURCE: Department of Surgical Sciences, Plastic Surgery, Uppsala

> Upsala journal of medical sciences, (2003) Vol 108, No. 1, pp. 25-35. Ref: 35 Journal code: 0332203. ISSN: 0300-9734. University, Sweden.. thomas.engstrand@ortopedi.uu.se

SOURCE:

PUB. COUNTRY: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
ENTRY DATE: Priority Journals

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ENTRY DATE:

Entered STN: 8 Aug 2003

Entered Medline: 29 Mar 2004

Entered Medline: 29 Mar 2004

Entered Medline: 29 Mar 2004

AB The formation of cartilage and bone tissue from condensing mesenchymal stem cells is taking place in the early stage embryo, but also in the growth plate and during fracture repair in adults. Resident mesenchymal stem cells have been identified in bone marrow, periosceum, and in muscles. These pluripotent cells are attractive as therapeutic cells in cartilage and bone reconstructive procedures, since they can differentiate into chondrocytes and osteoblasts upon appropriate stimuli, such as certain growth factors. Members of the transforming growth factor-beta (Tgr-beta) superfamily.

including TGP-beta (Tgr-beta) superfamily, including TGP-beta) superfamily, including TGP-beta (Tgr-beta) superfamily.

including TGP-beta (Tgr-beta) superfamily proteins (BMPS), and activins, are essential mediators in cell proliferation and differentiation and play regulatory roles in cartilage and bone formation. This review presents functional data on TGP-beta1 in cartilage and bone formation, and a role of the BMP-regulatory protein noggin in BMP2 processing. Potential and discussed. and discussed.

DOCUMENT NUMBER: L5 ANSWER 30 OF 77 ACCESSION NUMBER: 7 MEDLINE ON STN 2003364333 MEDLI PubMed ID: 12897477 MEDLINE

TITLE Bone morphogenetic proteins and spinal surgery. Sandhu Harvinder S

AUTHOR: CORPORATE SOURCE: Department of Orthopaedic Surgery, Hospital for Special Surgery, Weill Cornell Medical College, New York, New York

10021, USA.. sandhuh@hss.edu Spine, (2003 Aug 1) Vol. 28, No. 15 Suppl, pp. S64-73. Ref: 35 Journal code: 7610646. E-ISSN: 1528-1159.

SOURCE:

PUB. COUNTRY: DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) United States

LANGUAGE: General Review; (REVIEW) Priority Journals English

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: 200402

₽

ENTRY DATE:

Entered STN: 5 Aug 2003

Last Updated on STN: 21 Feb 2004

Entered Medline: 20 Feb 2004

STUDY DESIGN: A review of the literature concerning the use of recombinant human bone morphogenetic proteins 2 (rhBmp-7) and 7 (rhBmp-7) in spinal fusion. PURPOSE: TO summarize the pertinent preclinical experiments that enabled regulated human clinical trials of recombinant bone morphogenetic proteins for spinal fusion and to update clinicans on the results of those trials. BACKGROUND: More than three decades of research involving thousands of scientists and academicians thone morphogenetic proteins for the treatment of spinal disease.

METHODS: The published and presented scientific literature and the author's personal experience were examined. RESULTS AND CONCLUSIONS: Recent clinical data support the assertion that recombinant bone morphogenetic proteins can be used as complete bone graft substitutes in spinal fusion surgery. In some circumstances, the efficacy of these

factors for inducing successful fusion is superior to that of autogenous bone graft. RhBMP-2 is shown to be efficacious in several fusion applications, including intervertebral and lumbar posterolateral. Similar efficacy for rhBMP-7 has not yet been demonstrated, although relevant clinical studies are currently under way. The availability of these biologic agents will improve our ability to predictably treat spinal disease, and may facilitate the further development of less invasive innovations.

CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 31 OF Sweet Matthew J: Hume David A
CRC for Chronic Inflammatory Diseases, Institute for
Molecular Bloscience and Department of
Microbiology/Parasitology, University of Queensland, Qld
4072, Australia. m.sweet@imb.uq.edu.au
Archivum immunologiae et therapiae experimentalis,
(2003) Vol. 51, No. 3, pp. 169-77. Ref: 102
Journal code: 0114365. ISSN: 0004-069X. 2003361984 MEDLINE PubMed ID: 12894871 CSF-1 as a regulator of macrophage activation and immune responses. MEDLINE on STN

FILE SEGMENT: LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE: Poland
Journal; Article; (JOURNAL ARTICLE)

ENTRY MONTH: ENTRY DATE:

₽ UAGE: English
SEGMENT: Priority Journals
Y MONTH: Priority Journals
Y MONTH: Priority Journals
Y DATE: Entered STN: 5 Aug 2003
Last Updated on STN: 25 Mar 2004
Entered Medline: 24 Mar 2004
Macrophage activation is a key determinant of susceptibility and pathology
in a variety of inflammatory diseases. The extent of macrophage in a variety of inflammatory diseases. The extent of macrophage activation is tightly regulated by a number of pro-inflammatory cytokines (e.g. IFN-gamma, IL-2, GM-CSF, IL-3) and anti-inflammatory cytokines (e.g. IL-4, IL-10, TGF-beta). Macrophage colony-stimulating factor (CSF-1/M-CSF) is a key differentiation, growth and survival factor for monocytes/macrophages and osteoclasts. The role of this factor in regulating macrophage activation is often overlooked. This review will summarize our current understanding of the effects of CSF-1 on the activation state of mature macrophages and its role in regulating immune

ΑB

CORPORATE SOURCE: DOCUMENT NUMBER: L5 ANSWER 32 OF ACCESSION NUMBER: Surgical do's and don'ts of corneal dystrophies.

Lee Eun Suk; Kim Eung Kweon

The Institute of Vision Research, Department of
Ophthalmology, Yonsei University College of Medicine, PubMed ID: 12888715 Current opinion in ophthalmology, (2003 Aug) Vol. 14, No. 4, pp. 186-91. Reff: 55
Journal code: 9011108. ISSN: 1040-8738. United States MEDLINE on STN

PUB. COUNTRY:

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ₽ LANGUAGE: DOCUMENT TYPE: PATE: Entered STN: 31 Jul 2003

Last Updated on STN: 4 Nov 2003

Entered Medline: 3 Nov 2003

PURPOSE OF REVIEW: Characteristics of corneal dystrophies have been described with regards to such as location in the cornea, morphology, English Priority Journals 200311 Review; (REVIEW) Article; (JOURNAL ARTICLE)

> material composition, and recurrence after penetrating keratoplasty. The main goal of this review is to describe the surgical methods in treating corneal dystrophies. RECENT FINDINGS: Laser in situ keratomileusis (LASIK) has been shown to aggravate corneal deposits in Avellino dystrophy exacerbation LASIK and hence should be avoided. Phototherapeutic keratectomy (PTK) has shown its usefulness in clearing opacities with visual improvement and prevents painful erosion, resulting in delay or postponement of corneal grafting in some corneal dystrophies. Mitomycin-C may be used topically in conjunction with PTK to reduce the recurrence of the opacities. Topical use of antibody to TCF beta can also be considered to suppress recurrence of corneal opacities after PTK or lamellar keratectomy. SUMMARY: Clinicians must become more and future studies on treatment depending on different genotypes and future studies on treatment of corneal dystrophies should be focused on establishing treatment of cartead dystrophies should be dystrophies based on their chromosomal mutation.

LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: SOURCE: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: PUB. COUNTRY: ANSWER 33 OF 77 Cartilage regeneration by gene therapy.
Gelse K; von der Mark K; Schneider H
Nikolaus Fiebbiger Center of Molecular Medicine, Dept. of
Experimental Medicine I, University of Erlangen-Nuernberg,
Germany. hschneid@molmed.uni-erlangen.de
Current gene therapy, (2003 Aug) Vol. 3, No. 4,
pp. 305-17. Ref: 130 English Entered STN: 22 Jul 2003 Last Updated on STN: 27 I Entered Medline: 26 Mar 2003338911 MEDL PubMed ID: 12871019 Priority Journals General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE) Journal code: 101125446. ISSN: 1566-5232. MEDLINE on STN MEDLINE 27 Mar 2004

AB Damage of articular cartilage is a frequent clinical problem and is commonly considered to be irreversible. Full-thickness defects may lead to the formation of fibrous repair tissue of minor mechanical quality, while partial thickness lesions hardly show any repair response. Surgical approaches often fail to restore the articular surface, facing the problem of incomplete chondrogenesis or rapid degradation of the repair tissue. However, advances in molecular biology have revealed the potential of growth factors, differentiation factors, and cytokines in directing cellular differentiation and metabolic activity. Anabolic factors including members of the TGF-beta superfamily, IGF-1, FGF, or HGF have proven their potential to stimulate chondrogenesis and synthesis of cartilage-specific matrix components, allowing the formation of a hyaline cartilage-like repair tissue in experimental studdes. In addition, anti-catabolic or anti-inflammatory molecules, such as IL-4, IL-10, IL-Ra, and TNFSR may also exert beneficial effects by inhibiting excessive cartilage degradation. Although it is questionable whether regeneration of hyaline cartilage implying a complete restoration of the articular surface by a tissue that is identical with the original can ever be achieved, all these molecules have been considered as suitable tools for cartilage repair. The transfer of the respective genes into the joint, possibly in combination with the supply of chondroprogenitor cells, might be an elegant method to achieve a sustained delivery of such therapeutic factors at the required location in vivo. This review focuses on the therapeutic molecules, the suitable tools of different viral and non-viral vectors for intraarticular animal models. 26 Mar 2004

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ACCESSION NUMBER: AUTHOR: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: PUB. COUNTRY: 77 Entered STN: 19 Jul 2003
Last Updated on STN: 17 Sep 2003
Entered Medline: 16 Sep 2003 Journal code: UZUNDON. England: United Kingdom
Journal; Article; (JOURN
TOURN (REVIEW) approach.

Bikmans M; Baelde J J; de Heer E; Bruijn J A

Department of Pathology, Leiden University Medical Center,

Building 1, Li-Q, PO Box 9600, 2300 RC Leiden, The

Netherlands. M. Eikmans@LUMC.NL

The Journal of pathology, (2003 Jul) Vol. 200,

No. 4, pp. 526-36. Ref: 141 Priority Journals 200309 2003336045 MEDL1 PubMed ID: 12845620 General Review; (REVIEW) ECM homeostasis in renal diseases: a genomic MEDLINE on STN code: 0204634. ISSN: 0022-3417. MEDLINE (JOURNAL ARTICLE)

AB Chronic renal disease is in general histologically accompanied by a vast amount of scar tissue, ie glomerulosclerosis and interstitial fibrosis. Scarring results from excessive accumulation of extracellular matrix (ECM) components, a process driven by a plethora of cytokines and growth factors. Studies in experimental renal disease which target these regulators using gene therapy limit or prevent the development of scarring. This review focuses specifically on the role of transforming growth factor, connective tissue growth factor. The results of platelet-derived growth factor, and epidermal growth factor. The results obtained in animal models hold promise for molecular intervention strategies in human renal disease. Microarray technology allows large-scale gene expression profiling in kidney tissue to identify common molecular pathways in a step towards discovery of new drug targets. Molecular techniques are expected to be used for diagnostic and prognostic purposes in nephrological practice to supplement renal biopsy. Several studies already show that molecular techniques might be of use in routine diagnostic practice. Improvement of diagnosis and prediction of outcome therapeutic intervention.

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L5 ANSWER 35 OF 77 MEDLINE ON STN
ACCESSION NUMBER: 2003330843 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12860168
TITLE:

Of immunotherapy.
AUTHOR:
CORPORATE SOURCE: Nebraska Medical Center, University of Nebraska Medical Center 987660, Omaha, NE 68198-7660, USA...

jtalmadgeunmc.edu
SOURCE: International immunopharmacology, (2003 Aug) Vol.
3, No. 8, pp. 1121-43. Ref: 219
DUB. COUNTRY: Netherlands
DOCUMENT TYPE: Netherlands
Journal; Article, (JOURNAL ARTICLE)
LANGUAGE: English
LANGUAGE: English

ENTRY MONTH: ENTRY DATE:

Hematopoietic

stem cell transplants (SCT) are used in the

Entered STN: 16 Jul 2003 Last Updated on STN: 30 Mar 2004 Entered Medline: 29 Mar 2004 FILE SEGMENT:

Priority Journals 200403

congenital, autoimmune, and initianmatory disorders. Both autologous and allogeneic SCT are used, depending on donor availability and otherwise of disease being treated, resulting in different argeted outcomes. In both types of SCT, immune regulation via graft manipulation is being studied, although with highly different argeted outcomes. In general, autologous SCT have lower treatment related morbidity and mortality, but a higher incidence of turnor related morbidity and mortality, but a higher incidence of turnor related morbidity and mortality, but a higher incidence of turnor related morbidity, and mortality and a significantly longer time of disease progression, and the targeted outcomes or graft manipulation cargeted morbidity and mortality and a significantly longer time of disease chemotherapy (HDT) and autologous SCT is the immune tolerance that indis host response, both innate and antique (Ng) people of colowing high dose chemotherapy (HDT) and autologous SCT is the immune tolerance that the tumor. The immune tolerance that is observed is due in part to the tumor burden and prior cytocoxic therapy. Therefore, graft manipulation, as an adjuvant therapeutic approach in autologous SCT, is primarily to the fundament of the tumor to and vaccines. Recently, manipulation of the infused product as a form of cellular therapy that therapy therefore, graft manipulation and vaccines. Recently, manipulation of the infused product as a form of cellular through the transplantation of the infused product as a donor leukocyte interplantation and prior cytocoxic therapy. Therefore, graft manipulation of Fas Interplantation in transplantation and prior cytocoxic therapy. The contrast to autologous transplantation is used extensively. This includes induction of long-rear survivors. Indeed, allogeneic SCT provide the only retractive therapy for patients with chronic myelogenous leukemia (CHL), resulting the induction of long-rear survivors. Indeed, allogeneic SCT provide the only retransplantation, and myelogous transplan

LS ANSWER 36 OF 77 MEDLINE ON STN
ACCESSION NUMBER: 2003318780 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12848344
TITLE: Basic and translational advances in cancer metastasis:
Nm23.
Nm23.
Ouatas Taoufik; Salerno Massimiliano; Palmieri Diane; Steeg

CORPORATE SOURCE: Women's Cancer Research, National Cancer Institute, Bethesda, Maryland 20892, USA. taoufikemail.nih.gov
SOURCE: Journal of bioenergetics and biomembranes, (2003
Feb) Vol. 35, No. 1, pp. 73-9. Ref: 69
Journal code: 7701859. ISSN: 0145-479X.

PUB. COUNTRY: United States
DOCUMENT TYPE: General Review; (REVIEW)
LANGUAGE: Priority Journals
ENTRY MONTH: 200403
ENTRY MONTH: 200403
ENTRY MONTH: 200403
ENTRY DATE: Last Updated on STN: 30 Mar 2004
AB Cancer metastasis is a significant contributor to breast cancer patient morbidity and mortality. To develop new anti-metastatic therapies, we need to understand the biological and biochemical mechanisms of metastasis. Toward these efforts, we and others have studied metastasis suppressor genes, which halt metastasis suppressor gene confirmed was ma23, also known as NDP kinase. Using in vitro assays, mm2 overexpression resulted in reduced inhorage-independent colonization in response to multiple factors, and increased differentiation. We hypothesize that the metastasis suppression involves diminished signal transduction, downstream of a particular receptor. We hypothesize that a histidine protein kinase activity of km23 underlies its suppression of metastasis in a didentify candidate substrates. This review also discusses therapeutic options on the basis of reexpression of

ACCESSION NUMBER: 2003315786 MEDLINE
DOCUMENT NUMBER: 2003315786 MEDLINE
DOCUMENT NUMBER: PubMed ID: 128445619
TITLE: The dynamic extracellular matrix: intervention strategies during heart failure and atherosclerosis.

AUTHOR: Heenenan Sylvia; Cleutjens Jack P; Fabber Birgit C; Creemers Sether E; van Suylen Robert-Jan; Lutgens Esther; Cleutjens Kitty B; Daemen Mat J
CORPORATE SOURCE: Pepartment of Pathology, Cardiovascular Research Institute Maastricht, University of Maastricht, 6200 MD Maastricht, The Netherlands.

SOURCE: The Journal of pathology, (2003 Jul) Vol. 200, MO 4, pp. 516-52. Ref: 109
JOurnal code: 0204634. ISSN: 0022-3417.
England: United Kingdom

metastasis suppressors.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

ENGLESEGMENT: Priority Journals

ENTRY MONTH: 200309

ENTRY MONTH: Entered STN: 8 Jul 2003

ENTRY MONTH: Entered Mediline: 16 Sep 2003

AB The extracellular matrix is no longer seen as the static embedding in which cells reside; it has been shown to be involved in cell proliferation, migration and cell-cell interactions. Turnover of the different extracellular matrix components is an active process with multiple levels of regulation. Collagen, a major extracellular matrix components is an active process with multiple levels of regulation. Collagen, a major extracellular matrix constituent of the myocardium and the arterial vascular wall, is synthesized by (myo) fibroblasts in the myocardium ascoular wall. Its degradation is controlled by proteinases, which include matrix metalloproteinases. This review

will focus on the impact of fibrosis and especially collagen turnover on the progression of heart failure and atherosclerosis, two of the main cardiovascular pathologies. We will discuss data from human studies and animal models, with an emphasis on the effects of interventions on collagen synthesis and degradation. We conclude that there is a dynamic (dis)balance in the rate of collagen synthesis and degradation during heart failure and atherosclerosis, which makes the outcome of interventions not always predictable. Alternative approaches for intervening in collagen metabolism will be discussed as possible therapseutic intervention strategies.

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ACCESSION NUMBER: 1 LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: CORPORATE SOURCE: The T lymphocyte in food-allergy disorders. Eigenmann Philippe A; Frossard Christophe P Department of Pediatrics, University Hospital of Geneva, Geneva, Switzerland. Phillipe.Eigenmann@hcuge.ch Current opinion in allergy and clinical immunology, (2003 Jun) Vol. 3, No. 3, pp. 199-203. Ref: 20. Journal code: 100936359. ISSN: 1528-4050. 2003311556 MEDLI PubMed ID: 12840703 200310 Priority Journals **English** General Review; (REVIEW) United States Journal; Article; (JOURNAL ARTICLE) MEDLINE on STN MEDLINE

ENTRY DATE:

Entered STN: 4 Jul 2003

Entered Medline: 9 Oct 2003

AB PURPOSE OF REVIEW: While much attention is focused upon the role of IgE antibodies in food-allergy disorders, the T cell remains central to all forms, both IgE and non-IgE-mediated, of food-hypersensitivity responses. This review considers the central role of the T cell in this group of disorders and provides a comprehensive overview of recent studies that elucidate our understanding of the mechanisms involved in the pathogenesis of food allergy in regard to the role of the T cell. RECENT FINDINGS: Recent studies have defined a dynamic process involving T cell homing receptors (e.g. cutaneous lymphocyte antigen) and activation markers in food-hypersensitivity disorders. Modulation of the T-cell responses occurs through the recognition of dominant allergenic epitopes, the elaboration of regulatory cytokines (e.g. transforming growth factor-beta, IL-4, IL-5, tumor necrosis factor-alpha) and the influence of immunomodulatory microbial and environmental agents. The resulting disorders reflect T-cell dysregulation. SUMMARY: Significant recent advances in our understanding of the role of the T cell in food hypersensitivity have been made and will probably contribute to improved diagnostic and treatment methods in the near future.

LS ANSWER 39 OF 77 MEDLINE on STN
ACCESSION UMBER: 2003110730 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12839119
COW's milk allergy: a new understanding from immunology.
AUTHOR: Walker-Smith John
CORPORATE SOURCE: Pree Campus, Royal Free and University College Medical
School, University College, London, United Kingdom..
johnwalker\_smithehormail.com
SOURCE: Publication of the American College of Allergy, Asthma, &
Immunology, (2003 Jun) Vol. 90, No. 6 Suppl 3,
pp. 81-3. Ref: 7
Journal code: 9503580. ISSN: 1081-1206.

DOCUMENT TYPE: United States

DOCUMENT TYPE: General Review; (REVIEW)

LANGUAGE: General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: General Review; (REVIEW)

LANGUAGE: English

ENTRY MONTH: Entered Reddine: 21 Aug 2003

BACKGROUND: Because of the high prevalence of cow's milk allergy as one of the most frequent clinical presentations of food allergy in the condition accurately. Allergy must be distinguished from the broader term food intolerance, which may be defined as a reproducible adverse reaction to the ingestion of a food or to any of its components ie, proteins, carbohydrates, fats, and additives, and which includes toxic, metabolic, and allergic reactions. By contrast, food allergy may be defined as an adverse clinical reaction to a specific food component and that is immunologically mediated. The rapid increase in knowledge resulting from research in immunology in recent years has not only led to a better understanding of the basis for cow's milk allergy in infancy, but has also yielded considerable promise for improved diagnosis and management of the cilnical spectrum of cow's milk allergy in infancy, but has also yielded and selected abstracts that would have immediate, practical infeltrate of eosinophils and increased T cell activation, and integent where is dense related to gastro-enterology, focusing upon the esophaguis and small intestine. RESULTS: In cow's milk allergy in infants and clinical implications. The review focuses on themes related to gastro-enteritis. Changing patterns in recent years suggests that sensitive esophagitis, there is dense infeltrate of eosinophils and increased T cell activation, and it often results as a sequela of gastro-enteritis. Changing patterns in recent years suggests that sensitive esophagitis, there is dense infeltrate of eosinophils and increased T cell activation with the constract of the cell of

PUB. COUNTRY: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ENTRY MONTH: LANGUAGE: SEGMENT: ANSWER 40 OF Thamm Reinhard; Grosu Anca L; Molls Michael
Department of Radiation Oncology, Klinikum rechts der Isar,
Technical University Munich, Ismaninger Str. 22, 81675
Munich, Germany. nieder radonc tum@hotmail.com
Anticancer research, (2003 Mar-Apr) Vol. 23, No.
2C, pp. 1681-6. Ref: 63 2003293451 MEDL1 PubMed ID: 12820440 Greece Nieder Carsten; Schlegel Juergen; Andratschke Nicolaus; Thamm Reinhard; Grosu Anca L; Molls Michael Entered STN: 25 Jun 2003 Last Updated on STN: 11 Jul 2003 Journal code: 8102988. ISSN: 0250-7005. The role of growth factors in central nervous system Journal; Article; (JOURNAL ARTICLE) ority Journals MEDLINE on STN Review; (REVIEW) MEDLINE

Entered Medline: 10 Jul 2003

The role of growth factors in tumour growth and progression has increasingly been studied over the last few years. This review summarizes the available data and discusses their limitations as well as their potential influence on future therapeutic strategies. A large body of data suggests an important role of EGF, TGF-beta, PDGF and VEGF ligands and receptors in the vascularization of several brain tumour types, including gliomas and meningiomas. Recent experimental data indicate that inhibition of the signalling pathways may represent promising therapeutic strategies. Some inhibitory agents have now entered clinical trials, mainly for recurrent gliomas. Early results are presented.

ENTRY MONTH: ENTRY DATE: AB AIMS: To establish a clinical, histopathological, and genetic diagnosis in two unrelated British families with Avellino corneal dystrophy (ACD). METHOSS: Genomic DNA was extracted from peripheral blood leucocytes of all members participating in the study. Exons 4 and 12 of the human transforming growth factor beta induced (BJGH3) gene were amplified by polymerase chain reaction. The mutation and polymorphism were identified by direct sequencing and restriction digest analysis. A review of the patients clinical symptoms and signs was undertaken and a histopathological study on corneal specimen obtained from the proband of one family after keratoplasty was performed. RESULTS: A heterozygous G to A transition at the second nucleotide position of codon 124 of BIGH3 gene was detected in all affected members of both families. This mutation changes an arginine evident with advancing age. Histopathological study revealed granular deposits in the anterior stroma and occasional positive Congo red areas of amyloid deposition in the mid to deep stroma typical of ACD. CONCLUSIONS: This is the first report of ACD families in the United Kingdom and, intheremore, of BIGH3 gene mutation in British patients with this rare type of corneal dystrophy. The results indicate that BIGH3 gene screening along with clinical and histopathological examinations is essential for the diagnosis and clinical management of corneal FILE SEGMENT: DOCUMENT TYPE: SOURCE: CORPORATE AUTHOR: TITLE: ACCESSION NUMBER: LANGUAGE: PUB. COUNTRY ANSWER 41 OF 77 SOURCE: PubMed ID: 12812879
A clinical, histopathological, and genetic study
A clinical, histopathological, and genetic study
of Avellino corneal dystrophy in British families.
El-Ashry M F; Abd El-Aziz M M; Larkin D F P; Clarke B; Cree
El-Ashry M F; Abd el-Aziz M M; Larkin D F P; Clarke B; Cree
I A; Hardcastle A J; Bhattacharya S S; Ebenezer N D
Department of Molecular Genetics, Institute of
Ophthalmology, London ECIV 9EL, UK. m el ashry@hotmail.com
The British journal of ophthalmology, (2003 Jul)
Vol. 87, No. 7, pp. 839-42.
Journal code: 0421041. ISSN: 0007-1161. Entered STN: 19 Jun 2003 Last Updated on STN: 13 Aug 2003 England: United Kingdom (CASE REPORTS) Priority Journals 200308 Journal; Article; (JOURNAL ARTICLE) MEDLINE on STN

L5 ANSWER 42 OF 77 MEDLINE ON STN
ACCESSION NUMBER: 2003280141 MEDLINE
DOCUMENT NUMBER: Pubmed ID: 12806875
TITLE: [Review on hypertrophic osteoarthropathy and digital clubbing].
Le point sur l'osteoarthropathie hypertrophique et l'hippocratisme digital.

ANTHOR: Vandemergel X; Decaux G
CORPORATE SOURCE: Service de Medecine Interne Generale, Hopital Erasme,
U.L.B.
SOURCE: Revue medicale de Bruxelles, (2003 Apr) Vol. 24,
No. 2, pp. 88-94. Ref: 56
PUB. COUNTRY: Belgium
DOCUMENT TYPE: Journal code: 8003474. ISSN: 0035-3639.
BULLANGUAGE: French
FILE SEGMENT: Priority Journals
ENTRY MONTH: Entered STN: 17 Jun 2003
ENTRY DATE: Last Updated on STN: 26 Jul 2003
BAB Clubbing was first described by Hippocrates more than 2.500 years ago. I may be seen alone or as part of an entity called hypertrophic osteoarthropathy which include periostitis, arthritis and sometimes thickening and edema of the skin around the affected joints. Pulmonary diseases such as cancer, abscess, empyema, bronchiectasis and cystic fibrosis are the major diseases known to be associate with hypertrophic osteoarthropathy. Digestive tract cancer, cyanogenic congenital heart disease are well known association. Many theories have attempted to explain the appearance of this sign but few have persisted. In this article, we review characteristics, relation with etiology and the basis of the pathophysiology of hypertrophic osteoarthropathy and particularly of clubbing.

DOCUMENT TYPE: CONTRACT NUMBER: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: FILE SEGMENT: PUB. COUNTRY: ANSWER 43 OF 77 2003272254 MEDLINE
PubMed ID: 12798347
Regulation of osteogenic proteins by chondrocytes.
Chubinskaya Susan; Kuettner Klaus E
Chubinskaya Susan; Kuettner Klaus E
Department of Biochemistry, Rush Medical College at
Rush-Presbyterian-St. Luke's Medical Center, Chicago,
60612, USA... Schubins@rush.edu English England: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) The international journal of biochemistry & cell biology, (2003 Sep) Vol. 35, No. 9, pp. 1323-40. Ref: 115 Journal code: 9508482. ISSN: 1357-2725. AR 47654 (NIAMS) NIAMS 2-AP-39239 (NIADDK) MEDLINE on STN

FILE SEGMENT: Priority Journals
ENTRY DATE: Entered STN: 12 Jun 2003
ENTRY DATE: Entered STN: 12 Jun 2003
ENTRY DATE: Entered STN: 12 Jun 2003
Entered STN: 9 Sep 2003
Entered Medline: 8 Sep 2003

AB The purpose of this review is to summarize the current scientific knowledge of bone morphogenetic proteins (BMPs) in adult articular cartilage. We specifically focus on adult cartilage, since one of the major potential applications of the members of the BMP family may be a repair of adult tissue after trauma and/or disease. After reviewing cartilage physiology and BMPs, we analyze the data on the role of recombinant BMPs as anabolic agents in tissue formation and restoration in different in vitro and in vivo models following with the endogenous expression of BMPs and factors that regulate their expression. We also of sucression of BMPs and factors that regulate their expression. We also discuss recent transgenic modifications of BMP genes and subsequent effect on cartilage matrix synthesis. We found that the most studied BMPs in adult articular cartilage are BMP-7 and BMP-2 as well as transforming growth factor-beta (TGP beta). There are a number of contradicting reports for some of these growth factors, since different models, animals, doses, time points,

culture conditions and devices were used. However, regardless of the experimental conditions, only BMP-7 or osteogenic protein-1 (OP-1) exhibits the most convincing effects. It is the only BMP studded thus far in adult cartilage that demonstrates strong anabolic activity in vitro and in vivo with and without serum. OP-1 stimulates the synthesis of the majority of cartilage extracellular matrix proteins in adult articular chondrocytes derived from different species and of different age. OP-1 counteracts the degenerative effect of numerous catabolic mediators; it is also expressed in adult human, bovine, rabbit and goat articular cartilage. This review reveals the importance of the EMPs in the cartilage field and highlights their significance for clinical applications in the treatment of cartilage-related diseases.

ENTRY MONTH: ENTRY DATE: FILE SEGMENT: LANGUAGE: DOCUMENT TYPE: PUB. COUNTRY: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: : 2003235452 MEDLINE PubMed ID: 12757929 PubMed ID: 12757929 Psysiological and pathophysiological functions of the Physiological and pathophysiological functions of the ecto-nuclectide pyrophosphatase/phosphodiesterase family. Goding James W; Grobben Bert; Slegers Herman Department of Pathology and Immunology, Monash Medical School, Monash University, 3181, Victoria, Prahran, Entered STN: 22 May 2003 Last Updated on STN: 13 Jul 2003 Entered Medline: 11 Jul 2003 General Review; (REVIEW) Netherlands 1638, No. 1, pp. 1-19. Ref: 202 Journal code: 0217513. ISSN: 0006-3002. 200307 Priority Journals English Journal; Article; (JOURNAL ARTICLE) 1638, No. ochimica et biophysica acta, (2003 May 20) Vol 38, No. 1, pp. 1-19. Ref: 202 MEDLINE on STN

AB The ecto-nuclectide pyrophosphatase/phosphodiesterase (E-NPP) multigene family contains five members. NPP1-3 are type II transmembrane metalloenzymes characterized by a similar modular structure composed of a short intracellular domain, a single transmembrane domain and an extracellular domain containing a conserved catalytic site. The short intracellular domain of NPP1 has a basolateral membrane-targeting signal while NPP3 is targeted to the apical surface of polarized cells. NPP4-5 detected by database searches have a predicted type I membrane orientation but have not yet been functionally characterized. E-NPPs have been detected by Get been functionally characterized. E-NPPs have been detected by TGP-beta and glucocorticoids, but the signal transduction pathways that control expression are poorly documented. NPP1-3 have a broad substrate specificity which may reflect their role in a host of physiological and biochemical processes including bone mineralization, calcification of ligaments and joint capsules, modulation of purinergic receptor signalling, nucleotide recycling, and cell mineralization, crystal depositions in joints, invasion and metastasis of the present knowledge on the structure and the physiological and biochemical functions of E-NPP and their contribution to the pathogenesis of diseases.

L5 ANSWER 45 OF 77 MEDLINE ON STN
ACCESSION UNMBER: 2003225092 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12745005
TITLE: Antifibrotics and wound healing in glaucoma surgery.
ANTHOR: Lama Paul J; Rechrner Robert D
CORPORATE SOURCE: Glaucoma Division, New Jersey Medical School, Newark 0710

ENTRY MONTH:

ENTRY MONTH:

Entered STN: 15 May 2003

Entered Medline: 7 Jul 2003

Entered Medline: 7 Jul 2003

AB When medical and laser therapy fail to control intraocular pressure, glaucoma filtration surgery needs to be performed. Glaucoma surgery is unique in that its success is linked to interruption of the wound-healing response in order to maintain patency of the new filtration pathway. In this article we will review the wound-healing pathway and the pharmacologic interventions that have been employed clinically and experimentally to interrupt wound healing, particularly steroids and the published literature looking at use of these agents to enhance success as well as the associated complications are presented, critiqued, and interpreted in order to put the studies in proper perspective. Future and an introduction to newer wound modulating agents such as antitransforming growth factor beta 2 is B ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: General Review; (REVIEW) English Priority Journals USA.
Survey of ophthalmology, (2003 May-Jun) Vol. 48,
No. 3, pp. 314-46. Ref: 129
No. 3, pp. 314-46. Ref: 129
No. 3, pp. 314-46. Ref: 1980; 0039-6257. United States
Journal; Article; (JOURNAL ARTICLE)

ACCESSION NUMBER: DOCUMENT TYPE: CONTRACT NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: Journal, Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
English
Priority Journals Arteriosclerosis, thrombosis, and vascular biology, (2003 May 1) Vol. 23, No. 5, pp. 737-47. Electronic Publication: 2003-03-06. Ref: 123 Journal code: 9505803. E-ISSN: 1524-4636. United States Department of Molecular Physiology and Biological Physics, University of Virginia, 415 Lane Rd, MR5 Room 1220, PO Box 801394, Charlottesville, VA 22908, USA.. gko@virginia.edu PO1 HL19242 (NHLBI) , MEDLINE on STN
2003218814 MEDLINE
PUDMed ID: 12740224
Combinatorial control of smooth muscle-specific gene expression. Kumar Meena S; Owens Gary K

FILE SEGMENT:

LANGUAGE:

ENTRY DATE:

Entered STN: 13 May 2003

Entered STN: 6 Mar 2004

Entered Medline: 5 Mar 2004

Entered Medline: 5 Mar 2004

Entered Medline: 5 Mar 2004

AB Alterations in the differentiated state of vascular smooth muscle cells (SMCs) are known to play a key role in vascular diseases, yet the mechanisms controlling SMC differentiation are still poorly understand. In this review, we discuss our present knowledge of control of SMC differentiation at the transcriptional level, pointing out some common themes, important paradisms, and unresolved issues in SMC-specific gene regulation. We focus primarily on the serum response factor-CArG box-dependent pathway, because it has been shown to play a critical role in regulation of multiple SMC marker genes. However, we also highlight several other important regulatory elements, such as a transforming growth factor beta control element, E-boxes, and MCAT motifs. We present evidence in support of the ENTRY MONTH: ENTRY DATE:

> notion that SMC-specific gene regulation is not controlled by a few SMC-specific transcription factors but rather by complex combinatorial interactions between multiple general and tissue-specific proteins. Finally, we discuss the implications of chromatin remodeling on SMC Finally, we discuss the implications of chromatin remodeling on SMC Finally. differentiation.

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
ENTRY DATE: DOCUMENT NUMBER: DOCUMENT TYPE: PUB. COUNTRY: SOURCE: CONTRACT NUMBER: CORPORATE SOURCE: ACCESSION NUMBER: ANSWER 47 OF 77 861-74. Ref: 143
Journal code: 9421525. ISSN: 0969-7128.
England: United Kingdom
Journal, Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Immunopathology and the gene therapy of lupus.

Mageed R A; Prud'homme G I
Department of Immunology and Molecular Pathology, Royal
Free and University College School of Medicine, London, UK. 2003211406 MEDL Pubmed ID: 12732872 Gene therapy, (2003 May) Vol. 10, No. 10, pp. 861-74. Ref: 143 English Priority Journals AR39555 (NIAMS) AR31203 (NIAMS) MEDLINE on STN (NIA) MEDLINE

ENTRY DATE:

Last Updated on STN: 24 Jun 2003

Last updated on STN: 24 Jun 2003

AB Lupus is a chronic autoimmune inflammatory disease with complex clinical manifestations. In humans, lupus, also known as systemic lupus erythematosus (SLE), affects between 40 and 250 individuals, mostly females, in each 100 000 of the population. There are also a number of murine models of lupus widely used in studies of the genetics, immunopathology, and treatment of lupus. Human patients and murine models of lupus manifest a wide range of immunolysical abnormalities. The most pervasive of these are: (1) the ability to produce pathogenic autoantibodies; (2) lack of T- and B-lymphocyte regulation; and (3) defective clearance of autoantigens and immune complexes. This article briefly reviews immunological abnormalities and disease mechanisms characteristic of lupus autoimmunity and highlight recent studies on the use of gene therapy to target these abnormalities.

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ACCESSION NUMBER: : LANGUAGE: DOCUMENT TYPE AUTHOR: CORPORATE SOURCE: DOCUMENT NUMBER: : 2003202406 PMEDLINE
PubMed ID: 1721353
Stem cells as platforms for delivery of genes to enhance
cartilage repair.
Grande Daniel A; Mason James; Light Evan; Dines David
North Shore/Long Island Jewish Research Institute,
Manhasset, NY 11030, USA. dgrandeenshs.edu
The Journal of bone and joint surgery. American volume,
(2003) Vol. 85-A Suppl 2, pp. 111-6.
Journal code: 0014030. ISSN: 0021-9355.
United States Entered STN: 1 May 2003 Last Updated on STN: 22 May 2003 Entered Medline: 21 May 2003 English 200305 Abridged Index Medicus Journals; Priority Journals Journal; Article; (JOURNAL ARTICLE) MEDLINE on STN

BACKGROUND: The long-held axiom put forth by Hunter in 1743, that cartilage once injured is incapable of healing, has been challenged by the technique of autologous chondrocyte transplantation. This conceptual

change in the way in which orthopaedists are approaching the problem of cartilage repair has spawned a myriad of new and innovative treatment modalities. This review will focus on the new techniques and directions that our facility and other investigators are exploring to rescore functional articular cartilage. METHODS: To show the usefulness and effectiveness of local tissue-engineered gene therapy, we transduced periosteal stem cells known to have osteochondral potential with either bone morphogenetic protein-7 (BMP-7) or sonic hedgehog (Shh) gene. These cells were cultured to increase the number of cells and then were seeded onto bioresorbable polymer scaffolds. Full-thickness osteochondral defects were created in the mid-trochlear region of eighty New Zealand white rabbits, and the implants containing the transduced cells were placed in the defects. Animals were killed at six, eight, twelve, and twenty-six weeks postoperatively and were examined macroscopically and histologically. RESULTS: Periosteal-derived cambium-layer cells proliferated rapidly and were easily used for transfection of both the bone morphogenic protein-7 (BMP-7) and sonic hedgehog (Shh) genes. The control defects became filled with a mixture of fibrous and fibrocartilaginous tissue. The addition of either the BMP-7 or the Shh gene significantly enhanced the quality of the repair tissue. There was, however, a noticeable difference in the persistence of the cartilage phase between the group that received the Shh gene and the group that received the BMP-7 gene, with the subchondral compartment in the latter group seeming to remodel with bone much faster. CONCUSION AND CLINICAL RELEVANCE: The results of these experiments clearly demonstrate the utility of tissue-engineering strategies in which gene interesting to note the relative differences in the two different gene responses with regard to skeletal development and the repair process. skeletal development.

SOURCE: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: L5 ANSWER 49, OF 77 ACCESSION NUMBER: Panchal Jayesh; Uttchin Venus Oklahoma University Health Science Center, Oklahoma 73104, USA. Jayesh-Panchal@ouhsc.edu Plastic and reconstructive surgery, (2003 May)
Vol. 111, No. 6, pp. 2032-48; quiz 2049. Ref: 76
Journal code: 1306050. ISSN: 0032-1052. 2003193035 MEDLINE PubMed ID: 12711969 Management of craniosynostosis. MEDLINE on STN

FILE SEGMENT: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
English ldged Index Medicus Journals; Priority Journals

ENTRY DATE:

ENTRY MONTH:

DOCUMENT TYPE:

PUB. COUNTRY:

United States

ANGUAGE:

ENTRY DATE:

Entered STN: 25 Apr 2003

Last Updated on STN: 23 May 2003

Entered Medline: 22 May 2003

AB Learning Objectives: After studying this article, the participant should be able to: 1. Review the etiopathogenesis of craniosynostosis and craniofacial anomalies. 2. Develop a basic understanding of the clinical manifestations and diagnosis of craniofacial anomalies.

Describe the surgical principles of managing craniceynostosis and craniofacial anomalies of craniofacial anomalies. Craniosynostosis, or the premature closure of calvarial sutures, results in deformed calvaria at birth. Although the etiology of craniosynostosis is currently unknown, animal experiments and a recent interest in molecular biology point toward interplay between the dura and the underlying brain. This interaction occurs by means of a local alteration in the expression of transforming growth factor. MSX2, fibroblast growth factor receptor, and TWIST. The fused suture restricts growth of the calvaria, thus

leading to a characteristic deformation, each associated with a different type of cranicsynostosis. Uncorrected cranicsynostosis leads to a continuing progression of the deformity, and in some cases, an elevation of intracranial pressure. Clinical examination should include not only an examination of the skull but also a general examination to rule out the cranicfacial syndromes that accompany cranicsynostosis. Because deformational plagiocephaly, or plagiocephaly without synostosis, occurs secondary to sleeping in the supine position during the early perinatal period, the physician should be aware of this abnormality. Treatment for deformational plagiocephaly is conservative when compared with treatment for cranicsynostosis, which requires surgery. Appropriate investigations should include genetic screening, radiologic examination with a computerized tomographic scan, and neurodevelopmental analysis. Surgical intervention should be performed during infancy, preferably in the first 6 months of postnatal life, to prevent the further progression of the deformity and possible complications associated with increased intracranial pressure. The principles of surgical intervention are not only to excise the fused solution in critical to deform in the effort of the derivents of the surgical intervention. follow-up is critical to determine the effect of the surgical outcome.

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE: DOCUMENT TYPE PUB. COUNTRY: SOURCE: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 50 OF 77 Entered STN: 18 Apr 2003
Last Updated on STN: 8 May 2003
Entered Medline: 7 May 2003 Cancer Bioimmunotherapy Unit, Department of Medioncology, Centro di Riferimento Oncologico, IRCI 33081, Italy. efonsatti@cro.it Current drug targets, (2003 May) Vol. 4, No. 4, pp. 291-6. Ref: 76 2003180421 MEDLINE PubMed ID: 12699349 Endoglin (CD105): a target for anti-angiogenetic cancer Priority Journals English General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE) Journal code: 100960531. ISSN: 1389-4501. Fonsatti E; Altomonte M; Arslan P; Maio M MEDLINE on STN of Medical

₽ AB Targeting of tumor vasculature: Amb 2000 recently represent treatment. Among endothelial cell markers, Endoglin, a cell membrane glycoprotein, is emerging as an attractive therapeutic target on angiogenetic blood vessels, and it currently represents a powerful marker to quantify tumor angiogenesis. In normal human tissues, Endoglin is weakly expressed on erytroid precursors, stronal cells and activated monocytes, whereas it is strongly expressed on proliferating endothelial cells. In human neoplasias of different histotype, Endoglin is mainly present on endothelial cells of both peri- and intra-tumoral blood vessels, while it is weakly expressed or absent on neoplastic cells. Endoglin is an accessory component of the receptor complex of Transforming Growth Factor (TGF) -beta, a pleiotropic cytokine that modulates angiogenesis by the regulation of different cellular functions including proliferation, differentiation and migration. Interestingly, the over-expression of Endoglin antagonizes several cellular responses to TGF betal. In animal models, administration of aradiolabeled anti-Endoglin monoclonal antibodies (mab) efficiently images primary tumors, and naked or conjugated anti-Endoglin mab suppress angiogenesis and tumor growth. In this review we will summarize the complex of experimental evidences pointing to Endoglin mab suppress angiogenesis and tumor growth. In this review we will summarize the complex of experimental bioimmunotherapeutic strategies in human neoplasias.

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: Entered STN: 17 Apr 2003

Entered Medline: 28 Sep 2003

AB Tendon healing is a complex and highly-regulated process that is initiated, sustained and eventually terminated by a large number and variety of molecular families involved in healing, and a considerable number of the molecular families involved in healing, and a considerable number of the molecular families involved in healing, and a considerable number of the molecular families involved in healing, and a considerable number of the molecular families involved in healing; and a considerable number of the theorem investigations into the roles of five growth factors whose activities have been best that the roles of five growth factor whose activities have been best that characterised during tendon healing; insulin-like growth factor [GF-1], transforming growth factor beta (TGFteta), vascular endothelial growth factor (PEGF), all five are markedly pregulated following tendon injury and are active at multiple stages of the healing process. [GF-1 has been shown to be highly expressed during the early inflammatory phase in a number of animal tendon healing models, and appears to aid in the proliferation and migration of fibroblasts and to subsequently increase collagen production. TGFbeta is also active during inflammatory phase, at which time it is a powerful stimulator of cellular migration and proliferation, and fibromectin binding interactions. PEGF is produced at its highest levels only after the inflammatory phase, at which time it is a powerful stimulator of subjects and a regulator of cellular migration and proliferation. This review also covers some of the most recent studies that or studies have shown that begf is both a powerful stimulator of angiogenesis and a regulator of cellular migration and proliferation. This review also covers some of the most recent studies into the use of these molecules as the rapeutic agents to have shown to increase the Afficit of a healing tendon. Application of IGF-1 has been shown to promote cellular protiferational ₽ LS ANSWER 52 OF ACCESSION NUMBER: PUB. COUNTRY: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: LS ANSWER 51 OF ACCESSION NUMBER: 77 PubMed ID: 12696985
The roles of growth factors in tendon and ligament healing.
Molloy Timothy; Wang Yao; Murrell George
Orthopaedic Research Institute, St George Hospital Campus,
University of New South Wales, Sydney, Australia.
Sports medicine (Auckland, No. 5, pp. 381-94. Ref: 59 2003179554 Priority Journals English General Review; MEDLINE on STN MEDLINE on STN pp. 381-94. code: 8412297. ISSN: 0112-1642. Article; (JOURNAL ARTICLE) MEDLINE Ref:

DOCUMENT NUMBER:

2003164209

MEDLINE

PubMed ID: 12682450

distress syndrome. Dhainaut Jean-Francois; Charpentier Julien; Chiche Transforming growth factor beta: a mediator of cell regulation in acute respiratory

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ENTRY DATE:

Entered STN: 9 Apr 2003

Entered Medline: 29 Apr 2003

AB OBJECTIVE: To review recent advances in the use of transforming growth factor (TGF)

-beta in acute lung injury and to apply this knowledge to understanding the pathophysiology of this syndrome. DATA SOURCES AND STUDY SELECTION: Published research and review articles in the English language related to the role of TGF-beta in acute lung injury. DATA EXTRACTION AND SYNTHESIS: The cytokine TGF-beta plays a critical role in the development of pulmonary fibrosis. In contrast, recent animal studies showed that expression levels of several TGF-beta induction of finjury. The integrin alpha(v) beta (6) activates latent TGF-beta in the development of pulmonary fibrosis. In contrast, recent animal studies showed that expression levels of several TGF-beta induction of finjury. The integrin alpha(v) beta (6) activates latent TGF-beta in the lungs. Mice lacking this integrin were completely protected from pulmonary edema in a model of bleomycin-induced acute lung injury. Pharmacologic inhibition of TGF-beta also protected wild-type mice from pulmonary edema induced by bleomycin or Escherichia coli endotoxin. Similar findings also have been reported in patients in a clinical study evaluating TGF-beta in the bronchoalveolar lavage fluid during the course of acute respiratory distress syndrome (ARDS). Indeed, the bronchoalveolar lavage encentrations were dramatically increased as early as 1 day after the infinitation of ARDS criteria and were correlated with decreases in the Pao(21)/Fio(2) ratio, suggesting an important role for TGF-bh in the development of ARDS in humans. CONCLUSIONS: These studies suggest that TGF-beta not only participates in the late phase of acute lung injury, but also might be active early in acute lung injury and potentially could contribute to the development of pulmonary edema. The participate in the service of the development of pulmonary edema in ARDS, and blocking TGF beta or its activation could be an effective treatment for thi PUB. COUNTRY: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: DOCUMENT TYPE CORPORATE SOURCE: LANGUAGE: PUB. COUNTRY: Human molecular genetics, (2003 Apr 1) Vol. 12 Spec No 1, pp. R97-112. Ref: 187 Journal code: 9208958. ISSN: 0964-6906. England: United Kingdom Journal; Article; (JOURNAL ARTICLE) Department of Molecular Genetics and Microbiology, Duke University Medical Center, Box 3175, Durham, NC 27710, USA.. march004mmc.duke.edu Vascular morphogenesis: tales of two syndromes. Marchuk Douglas A; Srinivasan Sudha; Squire Ter Zawistowski Jon S HL-49171 (NHLBI) NS-43543 (NINDS) PubMed ID: 12668602 2003151899 Journal; Article; (JOURNAL ARTICLE) United States Critical care medicine, (2003 Apr) Vol. 31, No. 4 Paris Cedex 14, France. Service de Reanimation Medicale, Pavillon Cornil, Abridged Index Medicus Journals; Priority Journals Cochin Port-Royal, Universite Paris 5, Hopital Cochin, MEDLINE on STN code: 0355501. ISSN: 0090-3493. S258-64. Ref: MEDLINE Squire Teresa L;

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ₽ ANGUAGE:

ENTRY DATE:

Entered STN: 2 Apr 2003

Entered Medline: 28 Nov 2003

Entered Medline: 28 Nov 2003

AB Advances in our understanding of fundamental biological processes can be made by the analysis of defects manifested in inherited diseases

The genes responsible for these genetic syndromes often encode proteins that act at critical points of the pathways that control biological processes such as cell proliferation, cell-cell communication, cellular differentiation, and cell death. This approach has lead to the discovery of novel gene products and/or biochemical pathways involved in disease, genes that in turn play a fundamental role in normal biological processes. This forward genetic approach, focusing on Mendelian disorders of vascular anomalies, has been particularly fruitful for the study of genetic regulation of angiogenesis. This review summarizes the ongoing saga of two genetic syndromes involving disruption of normal vascular morphogenesis. Each inherited disorder involves the focal development of a distinct vascular anomaly. In hereditary henorrhagic telangiectasia HHT), the hallmark vascular enomaly. In hereditary hemorrhagic telangiectasia (HHT), the hallmark vascular lesion is termed an arteriovenous malformation, which involves the direct communication of an artery with a vein (arteriovenous shunt), without an intervening capillary bed. For cerebral cavernous malformations (CCM), the lesions are grossly-dilated, closely-packed, capillary like sinusoidal chambers. The autosomal dominant mode of inheritance of each of these distinct syndromes suggested that the underlying genes might regulate critical aspects of vascular morphogenesis. Emerging but intriguing tales are being told by the genes (and their protein products) mutated in these disorders.

ENTRY MONTH: ENTRY DATE: CORPORATE SOURCE: PUB. COUNTRY: DOCUMENT TYPE: DOCUMENT NUMBER: FILE SEGMENT: LANGUAGE: ACCESSION NUMBER: ANSWER 54 OF 77 transforming growth factor beta signaling in vasculogenesis and angiogenesis. van den Driesche Sander; Mummery Christine L; Westermann 2003151545 MEDLINE PubMed ID: 12667943 Hereditary hemorrhagic telangiectasia: an update on English Priority Journals Cornelius J J Hubrecht Laboratory, Netherlands Institute for General Review; (REVIEW) Journal; Article; (JOURNAL ARTICLE) Netherlands elopmental Biology, Utrecht, The Net diovascular research, (2003 Apr 1) V 1, pp. 20-31. Ref: 79 rnal code: 0077427. ISSN: 0008-6363. MEDLINE on STN (2003 Apr 1) Vol. 58,

Entered STN: 2 Apr 2003

Last Updated on STN: 8 Jun 2003

Entered Mediline: 6 Jun 2003

Hereditary hemorrhagic telangiectasia (HHT) is a vascular disorder in humans which has been mapped to two genes, endoglin and activin receptor-like kinase-1 (ALK-1) both of which mediate signaling by transforming growth factor beta ligands in vascular endothelial cells. Animal models have shown that these receptors are not only important for maintaining vascular integrity but also for angiogenesis both during embryonic development and during tumor growth. Here, we review the current status of reported mutations in the context of the clinical manifesstations and the effects on the vessel wall both in patients and in animal models of the disease.

51 ANSWER 55 OF 77

> Abdenocarcinoma of the prostate is the most common type of cancer, excluding skin cancer, and the second leading cause of cancer death in adult men in the United States. The lifetime risk for developing symptomatic prostate cancer is one in five for an American man. A pivotal step in carcinogenesis is a shift in the balance between proliferation, differentiation, and apoptosis that favors cell proliferation. Transforming growth factor-beta (TGF to the proliferation of normal prostate calls in a key negative growth regulator in the normal prostate. Although TGF-beta) inhibits the proliferation of normal prostate calls and functions as a tumor suppressor in early tumorigenesis, it acts as a tumor promoter in later stages of tumor progression. Elevated expression of TGF-beta in prostate cancer cells is associated with poor clinical outcome. Over-expression of TGF beta aids tumorigenesis by not only stimulating angiogenesis and suppressing the immune system, but also by acting directly on the prostate tumor cells. While prostate cancer cells become resistant to TGF beta-induced responses that enhance tumorgenicity. Such as induction of extracellular matrix proteins, cell adhesion proteins and proteases. These direct tumor effects are mediated primarily through Smad prostate cancer cells may acquire TGF-beta resistance and prostate cancer cells may acquire TGF-beta resistance and development of better diagnostic matkers and more effective strategies for treating prostate cancer. Ð ENTRY MONTH: ENTRY DATE: FILE SEGMENT: SOURCE: CONTRACT NUMBER: CORPORATE SOURCE ACCESSION NUMBER: DOCUMENT TYPE: PUB. COUNTRY: Journal; Article; (JOURNAL ARTICLE)
> General Review; (REVIEW) Entered STN: 20 Mar 2003 Last Updated on STN: 22 Netherlands Journal code: 100960531. ISSN: 1389-4501. Center, Rochester, Minnesota 55905, USA. CA91956 (NCI) TGP-betal/Smad signaling in prostate cancer. Bello-DeOcampo Diana; Tindall Donald J Department of Biochemistry, Mayo Comprehensive Cancer Priority Journals English PubMed ID: 12643470 MEDLINE (2003 Apr) Vol. 4, No. May 2003

DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 56 OF 77 treating prostate cancer. 2003124170 MEDLINE
PubMed ID: 12629334
Peyronie's disease: a review.
Gholami Shahram S; Gonzalez-Cadavid Nestor F; Lin
Ching-Shou; Rajfer Jacob; Lue Tom F
Knupps Molecular Urology Laboratory, Department of Urology,
School of Medicine, University of California, San
Francisco, 94143, USA. G12RR-03026 (NCRR)
ROIDK-53069 (NIDDK)
The Journal of urology, (2003 Apr) Vol.
4, pp. 1234-41. Ref: 73
Journal code: 0376374. ISSN: 0022-5347. General Review; (REVIEW) English Journal; Article; (JOURNAL ARTICLE) United States MEDLINE on STN (2003 Apr) Vol. 169, No.

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: Abridged Index Medicus Journals; Priority Journals 200304 Entered STN: 18 Mar 2003

Last Updated on STN: 3 Apr 2003

PURPOSE: We provide a current review of Peyronie's disease.

MATERIALS AND METHODS: We reviewed the world peer reviewed literature on the pathology, pathogenesis, diagnosis and treatment of Peyronie's disease has recontinuously increased during the last 30 years. However, fewer patients need prosthesis surgery as the sole treatment option because of earlier diagnosis, improved medical therapy, refinement in surgical technique and better understanding of the basic sciences of the disease. CONCLUSIONS: Currently patients with Peyronie's disease have had improvements in prognosis and experienced an expansion of the available therapeutic patients. therapeutic options. fewer patients

PUB. COUNTRY: DOCUMENT TYPE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 57 OF 77 Immunopathogenesis Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland 20892, USA. twynn@niaid.nih.gov Annual review of immunology, (2003) Vol. 21, pp. 425-56. Electronic Publication: 2001-12-19. Ref: 189 Journal code: 8309206. ISSN: 0732-0582. United States
Journal; Article; (JOURNAL ARTICLE) 2003102048 MEDL: PubMed ID: 12615888 IL-13 effector functions. Wynn Thomas A MEDLINE on STN MEDLINE

ENTRY MONTH: ENTRY DATE: FILE SEGMENT: LANGUAGE: General Review; (REVIEW) 200308 iority Journals

ENTRY DATE: Entered STN: 5 Mar 2003

ENTRY DATE: Entered STN: 2 Aug 2003

AB IL-13 was first recognized for its effects on B cells and monocytes, where it upregulated class II expression, promoted IgE class switching and inhibited inflammatory cytokine production. It was also thought to be functionally redundant with IL-4. However, studies conducted with knockout mice, neutralizing antibodies, and novel antagonists demonstrate that II-13 possesses several unique effector functions that distinguish it from IL-4. Resistance to most gastrointestinal nematodes is mediated by regulating cell-mediated immunity, IL-13 modulates resistance to intracellular organisms including Leishmania major, Leishmania mexicana, and Listeria monocytogenes. In the lung, II-13 is the central mediator of allergic asthma, where it regulates eosinophilic inflammation, mucus secretion, and airway hyperresponsiveness. Manipulation of IL-13 effector function may also prove useful in the treatment of some cancers function may also prove useful in the treatment of some cancers like B-cell chronic lymphocytic leukemia and Hodgkin's disease, where IL-13 modulates apoptosis or tumor cell growth. II-13 can also inhibit tumor immunosurvellance. As such, inhibitors of IL-13 and sight be effective as cancer immunotherapeutics by boosting type-1-associated anti-tumor defenses. Finally, IL-11 was revealed as a potent mediator of its sue fibrosis in both schistosomiasis and asthma, which indicates that it is a key regulator of the extracellular matrix. The mechanisms that regulate IL-13, IFN-gamma, IL-10, TGP-beta, TNF-alpha, and the IL-4, IL-18. IFN-gamma, IL-10, TGP-beta, TNF-alpha, and the IL-4, IL-18 activity in vivo.

ENTRY DATE:

Entered STN: 2 Mar 2003

Bittered Medline: 10 Jun 2003

AB Guided bone regeneration is an accepted surgical method employed in implant dentistry to increase the quantity and quality of the host bone in areas of localized alveolar defects. The lack of predictability in osseous regenerative procedures with various grafting materials suggests that improvement in the osteolarductive properties of these materials is highly desirable. Platelet rich plasma (PRP), a modification of fibrin glue made from autologous blood, is being used to deliver growth factors in high concentration to sites requiring osseous grafting. Growth factors released from the platelets include platelet-derived growth factor, plasmased from the platelets include platelet-derived growth factor, released from the platelets include platelet-derived growth factor, platelet-derived angiogenesis factor, insulin-like growth factor 1, and platelet factor 4. These factors signal the local mesenchymal and epithelial cells to migrate, divide, and increase collagen and matrix synthesis. PRP has been suggested for use to increase the rate of bone deposition and quality of bone regeneration when augmenting sites prior to or in conjunction with dental implant literature and 5 were case series or reports. Thus, the dental implant literature and 5 were case series or reports. Thus, in combination with bone grafts during augmentation procedures. This novel and potentially promising technique requires well-designed, controlled studies to provide evidence of efficacy. FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE: PUB. COUNTRY: DOCUMENT TYPE SOURCE: CORPORATE SOURCE: DOCUMENT NUMBER: ACCESSION NUMBER: Current review.

Sanchez Andres R. Sheridan Phillip J; Kupp Leo I
Sanchez Andres R. Sheridan Phillip J; Kupp Leo I
Section of Periodontics, Department of Dental Specialties,
Mayo Clinic, Rochester, Minnesota 55905, USA..

Mayo Clinic, Rochester, Minnesota 55905, USA..

Sanchez andres@mayo.edu
The International journal of oral & maxillofacial implants,
(2003 Jan-Feb) Vol. 18, No. 1, pp. 93-103. PubMed ID: 12608674

Is platelet-rich plasma the perfect enhancement factor? A 200306 English United States 2003096207 Journal; Article; (JOURNAL ARTICLE) (META-ANALYSIS) MEDLINE on Journals; Priority Journals MEDLINE

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE: DOCUMENT TYPE: PUB. COUNTRY: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: Y DATE: Entered STN: 28 Feb 2003

Last Updated on STN: 26 Aug 2003

Entered Medline: 25 Aug 2003

The goal of this article is to update the reader and focus on novel therapies and clinical trials published since our last ANSWER 59 OF 77 Treatment of scleroderma: an update.

Sule Sangeeta D, Wigley Fredrick M
Division of Rheumatology, Johns Hopkins University,
Baltimore, MD 21205, USA.
Expert opinion on investigational drugs, (2003 Mar)
Vol. 12, No. 3, pp. 471-82. Ref: 63
Journal code: 9434197. ISSN: 1354-3784.
England: United Kingdom
Journal, Article; (JOURNAL ARTICLE)
General Review; (REVIEW) 2003094789 MEDL PubMed ID: 12605568 200308 Priority Journals MEDLINE on STN MEDLINE

review [6]. Evidence suggests that drug intervention should target one or all of three biological processes; vascular disease, autoimmunity and tissue fibrosis. Efforts should be made to classify the subtype of scleroderma, to determine the activity of the disease process and the degree of specific organ involvement before specific treatment decisions are made. Cyclophosphamide in fibrosing alveolitis, intravenous prostaglandins and other vasodilators for the vascular disease, endothelin-1 inhibition in pulmonary hypertension and immunosuppressive therapy for early inflammatory disease, all appear to have benefit. Several agents used in vitro and in animal models of fibrosis also show promise including anti-transforming growth factor-beta, the statins and anti-integrins.

More experience in well-designed clinical trials is needed to define the role of these agents in treating scleroderma.

CORPORATE SOURCE: ACCESSION NUMBER: ANSWER 60 OF 77 2003077359 MEDLINE
PubMed ID: 12542972
Genetic polymorphisms and cancer susceptibility of breast MEDLINE on STN

cancer in Korean women.

Kang Daehee

Department of Preventive Medicine, Seoul National
University College of Medicine, Seoul 110-799, Korea..dhkang@snu.ac.kr

Journal of biochemistry and molecular biology, (2003
Jan 31) Vol. 36, No. 1, pp. 28-34. Ref: 12

Journal code: 9702084. ISSN: 1225-8687.

DOCUMENT TYPE: PUB. COUNTRY: General Review; (REVIEW)
English Journal; Article; (JOURNAL ARTICLE) (South)

Priority Journals

LANGUAGE:

FILE SEGMENT:

Entered STN: 21 Feb 2003
Last Updated on STN: 21 Jun 2003
Entered Medline: 20 Jun 2003

AB Breast cancer is the most prevalent cancer among women in Western countries, and its prevalence is also increasing in Asia. The major risk factor for breast cancer can be traced to reproductive events that influence the lifetime levels of hormones. However, a large percentage of breast cancer cases cannot, be explained by these risk factors. The identification of susceptibility factors that predispose individuals to breast cancer (for instance, if they are exposed to particular environmental agents) could possibly give further insight into the etiology of this malignancy and provide targets for the future development of therapeutics. The most interesting candidate genes include those that mediate a range of functions. These include carcinogen metabolism, Max repair, steroid hormone metabolism, signal transduction, on South Korea to evaluate the potential modifying role of the genetic pollymprphisms of selected low penetrance gens that are involved carcinogen synthesis and metabolism (i.e., CYP1AI, CYP2EI, GSTM/TI/PI, NATI/2, etc.), estrogen synthesis and metabolism (i.e., CYP13, CYP17, CYP18, COMT, ER-alpha, etc.), DNA repair (i.e., XRCC1/3, ERCC2/4, ATM, AGT, etc.), and signal transduction as well as others (i.e., TGF, beta, TGF-1, TNF- beta, IL-IRM, etc.). We also took into account the potential interaction between these and the known risk factors of breast cancer. The results of selected genes will be presented in this mini-

DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 61 OF 77 2003071265 MEDLINE PubMed ID: 12582309 Role of intestinal flora in the development of allergy. Kalliomaki Marko; Isolauri Erika MEDLINE on STN

> Entered Medline: 11 Jun 2003
>
> AB PURPOSE OF REVIEW: The frequency of allergic diseases is increasing worldwide. Experimental and clinical studies have linked a reduced number of early infections to this trend. The gastrointestinal system, which comprises the largest lymphoid tissue and microbial reservoir of the body, has received more attention during the last few years as a potential determiner in the development of atopic disease. RECENT FINDINGS: Alterations in intestinal microbiota have been detected both in infants suffering from allergic disease and in those later developing the disorder. Delay in the compositional development of and in gut microflora was a general finding in allergic children. In a subsequent study, perinatal administration of lactobacilli halved the later development of atopic eczema during the first 2 years of life. Specific strains of the healthy gut microbiota have been shown to induce the production of II-10 and transforming growth factor-beta, which possess an important regulative role in the development of allergic type immune response. Probiotics also strengthen gut defence barrier mechanisms and reduce antiegen load in the gut. Pattern recognition receptors in intestinal epithelial and antigen-presenting cells have been demonstrated to mediate a continuing dialogue between host and gut microbiota. SuyMARY: Despite several promising findings, the exact role of gut normal microbiota in the development of allergy remains to be elucidated. For successful interventions, more data concerning a communication between host and specific are needed. ₽ ENTRY MONTH: FILE SEGMENT: LANGUAGE: DOCUMENT TYPE CORPORATE SOURCE: specific microbial species are needed. Entered STN: 14 Feb 2003 General Review; (REVIEW) Current opinion in allergy and clinical immunology, (2003 Feb) Vol. 3, No. 1, pp. 15-20. Ref: 69 Journal code: 100936359. ISSN: 1528-4050. Priority Journals English Journal; Article; (JOURNAL ARTICLE) United States marko.kalliomaki@utu.f: Department of Pediatrics, University of Turku, Finland..

DOCUMENT NUMBER: LS ANSWER 62 OF 77 ACCESSION NUMBER: 2 (The role of cytokines and growth factors in fibroproliferative lung disease).
Die Bedeutung von Zytokinen und Wachstumsfaktoren bei 2003069134 MEDLI PubMed ID: 12579464 MEDLINE on STN MEDLINE

AUTHOR: CORPORATE SOURCE: Kolb M; Schmidt M Medizinische Klinik der Julius-Maximilian-Universitat fibrosierenden Lungenerkrankungen.

wuerzburg.de Wurzburg, Schwerpunkt Pneumologie.. kolb\_m@klinik.uni-

SOURCE

Pneumologie (Stuttgart, Germany), (2003 Feb) Vol. 57, No. 2, pp. 91-7. Ref: 74
Journal code: 8906641. ISSN: 0934-8387.
Germany, Federal Republic of Journal, Article; (JOURNAL ARTICLE)

DOCUMENT TYPE General Review; (REVIEW)

LANGUAGE:

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: Priority Journals 200304

Intered STN: 12 Feb 2003
Last Updated on STN: 18 Apr 2003
Entered Medline: 17 Apr 2003
A new hypothesis of the pathogenesis of fibroproliferative lung disease suggests that fibrosis is caused by abnormal and excessive wound healing and pathologic tissue remodelling. Inflammation is possibly an

epiphenomenon. Cytokines are critical players in the pathologic process and attractive targets for pharmacological intervention. TGF beta is a key profibrotic growth factor, a variety of approaches are known to modify and inhibit its activity. This article reviews the basic pathological concepts of pulmonary fibrogenesis and outlines its potential clinical benefit.

DOCUMENT NUMBER: CORPORATE SOURCE: ACCESSION NUMBER: ANSWER 63 OF 77 Diabetic nephropathy: renal development gone awry?.

Dolan Vincent; Hensey Carmel; Brady Hugh R

Department of Medicine and Therapeutics, Conway Institute

of Blomolecular and Blomedical Research, University College

publin, The Mater Misericordiae Hospital, Dublin, Ireland.

Pediatric nephrology (Berlin, Germany), (2003 Feb)

vol. 18, No. 2, pp. 75-84. Electronic Publication:

2002-11-22. Ref: 69 2003069104 PubMed ID: 12579392 MEDLINE on STN MEDLINE

PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE: Germany: Germany, Federal Republic of Journal; Article: (JOURNAL ARTICLE) General Review; (REVIEW) Journal code: 8708728. ISSN: 0931-041X.

Priority Journals

FILE SEGMENT:

ENTRY MONTH: ENTRY DATE: Entered STN: 12 Feb 2003

₽

Last Updated on STN: 17 Sep 2003

AB Nephrogenesis is controlled by a sequence of inductive signals between different areas of the developing kidney. As these signals are being elucidated, it has become clear that many important developmental genes are re-expressed in the mature organ following injury, possibly as part of repair and regeneration. While this reuse of developmental pathways may contribute to healing and repair, it may alternatively result in scar formation if specific components of the pathways are missing, if the temporal correlation of various elements is faulty, or if an injurious stimulus persists. In the review we will use diabetic nephropathy as an example to illustrate this paradigm in renal disease. The pathwayes are assisted by altered expression of many genes, including growth factors, apoptotic regulators, cellular matrix components, and cytoskeletal proteins. Many of these factors also function during kidney development. The elucidation of the roles these genes play in nephrogenesis and of their array of molecular partners and modulators may ultimately shed light on the pathogenesis of disease (and indeed vice versa), and may even suggest new theraprents.

DOCUMENT NUMBER: ACCESSION NUMBER: : 2003061194. PubMed ID: 12570836 MEDLINE on STN MEDLINE

strategies.

CORPORATE SOURCE:

New aspects of cyclosporin a mode of action: from gene silencing to gene up-regulation.
Mascarell Laurent, Truffa-Bachi Paolo
Unite Biologie des Populations Lymphocytaires, CNRS URA
1961, Institut Pasteur, Paris, France.
Mini reviews in medicinal chemistry, (2003 May)
Vol. 3, No. 3, pp. 205-14. Ref: 80

PUB. COUNTRY: Vol. 3, No. 3, pp. 205-14. Ref: 80
Journal code: 101094212. ISSN: 1389-5575

DOCUMENT TYPE General Review; Journal; Article; (JOURNAL ARTICLE) (REVIEW)

FILE SEGMENT: ENTRY MONTH: LANGUAGE: Priority Journals

Entered STN: 7 Feb 2003

ENTRY DATE:

dated on STN: 14 May 2003 Medline: 13 May 2003

AB Cyclosporin A (CSA) has transformed clinical transplantation, both in term of success and of quality-of-life of the patient. Studies aimed to unfold the site of CSA action have shown that this molecule binds to cytosolic proteins of the cyclophilin family. CSA:cyclophilin complexes have a high affinity for calcineurin, a key enzyme in T-cell activation. By blocking the calcineurin activity, CSA prevents the induction of genes encoding for cytokines and their receptors. Thus, humoral and cellular immune responses are abolished, this resulting in the successful graft acceptance. Disappointingly, CSA and the other molecules as FK506, sharing the capacity to inhibit calcineurin, should be administered for all patient life, as tolerance to alloantigens is not achieved by these molecules. The long term utilization of this class of immunosuppressors increases the incidence of different tumors. The immunosuppressors increases the incidence of different thways has prompted different groups to analyze a possible effect of CSA on molecules that might be involved in different functions of the immune response in which the immunosuppressor prevents the transcription of a group of genes, concomitantly inducing the transcription of another set. Here, we review the data and discuss the consequences of these new findings in review the data and discuss the consequences of these new findings. ₽ in term of T-cell activation mechanisms.

TITLE: DOCUMENT NUMBER: L5 ANSWER 65 OF 77
ACCESSION NUMBER: : 2003050437 MEDL: PubMed ID: 12561070 MEDLINE on STN MEDLINE

SOURCE: CORPORATE SOURCE: AUTHOR: Heterotopic ossification in rectal cancer: Rare finding with a novel proposed mechanism.

Kypson Alan P; Morphew Emille; Jones Relief; Gottfried Marcia R; Seigler Hilliard F Department of Surgery, Duke University Medical Center, Durham, North Carolina 27710, USA.
Journal of Surgical oncology, (2003 Feb) Vol. 82,
No. 2, pp. 132-6; disccussion 137. Ref: 33
Journal code: 0222643. ISSN: 0022-4790.

PUB. COUNTRY: United States (CASE REPORTS)

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
ENTRY DATE: General Review; (REVIEW) Priority Journals English Journal; Article; (JOURNAL ARTICLE)

200303

B

Last Updated on STN: 19 Mar 2003

Ratered Medline: 18 Mar 2003

The rare finding of heterotopic ossification in a case of primary rectal adenocarcinoma is described along with a review of the literature. Immunohistochemistry for a bone morphogenic protein (BMP-2) and fibroblast growth factor (FGF-2), both of which induce and stimulate bone formation, was performed and revealed overexpression of BMP-2 by the tumor cells, elucidating a possible mechanism which up to now had been based merely on speculation.

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DOCUMENT NUMBER: L5 ANSWER 66 OF 77
ACCESSION NUMBER: 2003048387 MEDL PubMed ID: 12558073 MEDLINE on STN MEDLINE

TITLE:

Cytokine polymorphisms in chronic inflammatory diseases with reference to occupational

AUTHOR: CORPORATE SOURCE: Yucesoy Berran; Kashon Michael L; Luster Michael I Ankara University, Faculty of Pharmacy, Department of Toxicology, 06100, Tandogan-Ankara, Turkey.. BYucesoy@cdc.gov

₽ ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE Entered STN: 2 Feb 2003

Last Updated on STN: 16 Jul 2003

Entered Medline: 15 Jul 2003

AB Genes which encode inflammatory cytokines are subject to polymorphisms in their regulatory regions that may effect both the level and ratio of cytokines produced in response to exogenous stimuli. These variant alleles are observed in a large percent of the population and are often associated with increased or decreased susceptibility or severity (modifiers) to infectious, immune or inflammatory diseases.

Environmental factors can also play either a direct (i.e., causative factor) or indirect (modifying factor) role in these diseases.

Thus, it would follow that gene-environment interactions would effect the expression and/or progression of the disease. In the present review, the concept that some of the common allelic variants found in cytokine genes represent modifying factors in chronic inflammatory diseases associated with occupational exposure is discussed. FILE SEGMENT: LANGUAGE: Orrrent molecular medicine, (2003 Feb) Vol. No. 1, pp. 39-48. Ref: 141

Journal code: 101093076. ISSN: 1566-5240. Netherlands Priority Journals General Review;

ENTRY DATE: ENTRY MONTH: DOCUMENT NUMBER: FILE SEGMENT: DOCUMENT TYPE: ACCESSION NUMBER: LANGUAGE: CORPORATE AUTHOR: ANSWER 67 OF 77 COUNTRY: SOURCE: 2003047099 MEDLINE
PubMed ID: 12556204
The not-so innocent bystander: the microenvironment as a therapeutic target in cancer.
Erickson Anna C; Barcellos-Hoff Mary Helen Life Sciences Division, Building 74-174, 1 Cyclotron Road Lawrence Berkeley National Laboratory, Berkeley, CA 94720 Vol. 7, No. 1, pp. 71-88. Ref: 184
Journal code: 101127833. E-ISSN: 1744-7631.
England: United Kingdom
Journal; Article; (JOURNAL ARTICLE) Expert opinion on therapeutic targets, (2003 Feb) General Review; (REVIEW) Priority Journals MEDLINE on STN Cyclotron Road, keley, CA 94720,

ENTRY DATE: Entered STN: 31 Jan 2003

Entered STN: 17 Dec 2003

State on STN: 17 Dec 2003

AB The microenvironment in which cancer arises is often regarded as a bystander to the clonal expansion and acquisition of malignant characteristics of the tumour. However, a major function of the microenvironment is to suppress cancer, and its disruption is required for the establishment of cancer. In addition, tumour cells can further distort the microenvironment to promote growth, recruit non-malignant cells that provide physiological resources, and facilitate invasion. In this review, the authors discuss the contribution of the microenvironment, i.e., the stroma and its resident vasculature, inflammatory cells, growth factors and the extracellular matrix (ECM), in the development of cancer, and focus on two components as potential therapeutic targets in breast cancer. First, the ECM, which imparts crucial signalling via integrins and other receptors, is a first-line barrier to invasion, modulates aggressive behaviour and may be authors discuss the involvement of TGF-betal as an example of one of many growth factors that can regulate ECM composition and degradation and that play complex roles in cancer. Compared to the

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
ENTRY DATE:

English

Priority Journals

200303

General Review; (REVIEW)

Glaucoma is

Entered STN: 28 Jan 2003
Last Updated on STN: 1 Apr 2003
Entered Medline: 31 Mar 2003
Entered Medline: 31 Mar 2003
the major cause of irreversible blindness throughout the

PUB. COUNTRY: DOCUMENT TYPE

SOURCE

CORPORATE SOURCE:

Cordeiro M Francesca
Department of Pathology, Moorfields Eye Hospital and
Institute of Ophthalmology, Bath Street, London EC1V 9EL,
UK. m.cordeiro@ucl.ac.uk

factor beta in conjunctival scarring.

Clinical science (London, England : 1979), (2003 Feb) Vol. 104, No. 2, pp. 181-7. Ref: 49 Journal code: 7905731. ISSN: 0143-5221.

England: United Kingdom
Journal; Article; (JOURNAL ARTICLE)

AUTHOR:

B

variable routes taken by cells to become cancers, the response of tissues to cancer is relatively consistent. Therefore, controlling and eliminating cancer may be more readily achieved indirectly via the tissue microenvironment.

TITLE: AB BACKGROUND: Chronic foot ulceration is a major source of morbidity in diabetic patients. Despite traditional comprehensive wound management, including vascular reconstruction, there remains a cohort of patients with non-responding wounds, often resulting in amputation. These wounds may benefit from molecular manipulation of growth factors to enhance the microcirculation. METHODS: A review of the current literature was performed using Pubmed, with secondary references obtained from key articles. RESULTS AND CONCLUSION: There has been a generally disappointing clinical outcome from growth factor trials, although topical platelet-derived growth factor has shown significant benefit and should be considered in mon-healing, well perfused ulcers after failure of conventional wound care. The modulatory role of the extracellular matrix in the cellular response to growth factors and data from regenerative-type fetal wound healing are further areas of interest. The chemical induction of microvessel formation may become a future ACCESSION NUMBER: ENTRY MONTH: ENTRY DATE: FILE SEGMENT: DOCUMENT TYPE: SOURCE: CORPORATE SOURCE: TITLE: DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 68 OF 77 ANSWER 69 OF 77 therapeutic option. 2003039398 MEDLINE
PubMed ID: 12546640
Role of transforming growth University of Dundee, Dundee, UK...
s.p. bennett@doctors.org.uk
The British journal of surgery, (2003 Feb) Vol.
90, No. 2, pp. 133-46. Ref: 130
Journal code: 0372553. ISSN: 0007-1323. England: United Kingdom
Journal; Article; (JOURNAL ARTICLE) Bennett S P; Griffiths G D; Schor A M; Leese G P; Schor S L Unit of Cell and Molecular Biology, The Dental School, General Review; (REVIEW) ulcers. Growth factors in the treatment of diabetic foot PubMed 2003044846 Entered STN: 30 Jan 2003 200303 Abridged Index Medicus Journals; Priority Journals English MEDLINE on STN MEDLINE on STN ID: 12555288 and Molecular Biology, The Dental School, MEDITNE

world. Of all of the treatments that are available at present, the most effective appears to be surgery; however, excessive conjunctival scarring can lead to surgical failure. In the last decade, the introduction of the anti-metabolites mitomycin-C and 5-fluorouracil as anti-scarring treatments have greatly improved the results of glaucoma surgery, but these agents are associated with complications that can potentially result in blindness. A possible target for a more physiological approach to anti-scarring is transforming growth factor beta. This review examines the role of transforming growth factor beta in conjunctival scarring and discusses promising new ways of modifying its

DOCUMENT NUMBER:

ACCESSION NUMBER: ANSWER 71 OF 77 MEDLINE ON STN

CORPORATE SOURCE: Minnesota 55905, USA.

LANGUAGE: FILE SEGMENT: ENTRY MONTH:

ENTRY DATE:

Last Updated on STN: 10 Sep 2003

Entered Medline: 9 Sep 2003

AB Pharmacological agents currently in use to treat interstitial lung fibrosis are either ineffective or too toxic in humans. This review addresses mechanistically based novel approaches that have the potential to minimize the accumulation of collagen in the lung, a hallmark of lung fibrosis. These approaches include maintaining the intracellular levels of MAD(+) and ATP, blocking the biological activities of TGF-beta and integrins, evaluating the effectiveness of PAF-receptor antagonists and NOS inhibitors, and developing a new generation of cysteine pro-drugs with an adequate degree of bioavailability. A critical analysis of each approach as it relates to management of IPF in humans is presented. ENTRY MONTH: FILE SEGMENT: DOCUMENT TYPE: DOCUMENT NUMBER: PUB. COUNTRY: L5 ANSWER 70 OF 77 ACCESSION NUMBER: DOCUMENT TYPE: PUB. COUNTRY: CONTRACT NUMBER: CORPORATE SOURCE: Scheithauer Bernd
Department of Laboratory Medicine, Mayo Clinic, Rochester Angiogenesis in normal and neoplastic pituitary tissues. Lloyd Ricardo V; Vidal Sergio; Horvath Eva; Kovacs Kalman; 2003031591 MEDLI PubMed ID: 12539179 Journal code: 7607088. ISSN: 0362-1642. United States Department of Molecular Biosciences, School of Veterinary Medicine, University of California, Davis, California 95616, USA.. sngiri@ucdavis.edu Annual review of pharmacology and toxicology, (2003) Vol. 43, pp. 73-95. Electronic Publication: 2002-01-10. Ref: 163 Novel pharmacological approaches to manage interstitial lung fibrosis in the twenty-first century. Giri Shri N Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Microscopy research and technique, (200 Vol. 60, No. 2, pp. 244-50. Ref: 91 Journal code: 9203012. ISSN: 1059-910X. Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) MEDLINE on STN 2003033502 MEDL PubMed ID: 12540741 United States CA90249 (NCI) ority Journals MEDLINE (2003 Feb

> ENTRY DATE: Entered STN: 23 Jan 2003 Last Updated on STN: 18 Jul 2003

Entered Medline: 17 Jul 2003

AB. Angiogenesis, or the formation of new blood vessels, is a dynamic process needed for embryogenesis, post-natal growth, morphogenesis, tumorigenesis, and for other biological processes. Angiogenesis is very important for tumor development and progression. This review examines the activators and inhibitors of angiogenesis with emphasis on the pituitary gland and pituitary neoplasms. Some of the proteins regulating angiogenesis in pituitary tumors such as vascular endothelial growth factor (VEGF) and VEGF receptors, fibroblasts growth factors for enteretwins, interferons, and matrix metalloproteinases (MMPs) and interleukins, interferons, and matrix metalloproteinases (MMPs) and inhibitors of MMPs have been examined in animal and human pituitary tumor models. However, many other significant regulators of angiogenesis including angiopeietins, angiostatin, and thrombospondins have not been studied extensively in pituitary tumors to date. Newer concepts and developments in angiogenesis such as vasculogenic minicry and gene therapy approaches to angiogenesis in cancer treatment are also

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ACCESSION NUMBER: 2003030929 MEDL: PubMed ID: 12537941 MEDLINE on STN MEDLINE

CORPORATE SOURCE: DOCUMENT NUMBER: Antisense oligonucleotide therapy for urologic tumors. Kausch Ingo; Bohle Andreas Department of Urology, Medical University of Lubeck, Ratzeburger Allee 160, Germany.

SOURCE: 1, pp. 60-9. Ref: 83
Journal code: 100900943. ISSN: 1527-2737. Current urology reports, (2003 Feb) Vol. 4, No. 1, pp. 60-9. Ref: 83

PUB. COUNTRY: DOCUMENT TYPE: General Review; (REVIEW) United States Journal; Article; (JOURNAL ARTICLE)

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: 200304 Priority Journals English

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ENTRY DATE:

Entered STN: 23 Jan 2003

Entered Medline: 2 Apr 2003

Entered Medline: 2 Apr 2003

AB Modulation of gene expression using antisense oligonucleotides has advanced from the laboratory to the clinic. Numerous companies can, at least partially, attribute their success to the development of antisense techniques, and one antisense drug is currently on the market. Antisense compounds have been used in clinical trials that included patients with urologic tumors, mostly directed at proliferation or apoptosis-related targets. Purthermore, therapeutic inhibition of many new identified genes is being investigated in preclinical tests. This review provides a contemporary overview of current preclinical and clinical antisense oligonucleotide concepts for the treatment of urologic tumors.

L5 ANSWER 73 OF 77 ACCESSION NUMBER: 2 MEDLINE on STN

DOCUMENT NUMBER:

AUTHOR:

CORPORATE SOURCE: PubMed ID: 1253847
Prevention of ovarian cancer: intraepithelial neoplasia.
Brewer Molly A; Johnson Karen; Follen Michele; Gershenson David; Bast Robert Jr
Department of Obstetrics and Gynecology, Arizona Cancer Center, University of Arizona, Tucson, Arizona 85724, USA..
mbrewer@azcc.arizona.edu
Clinical.cancer research : an official journal of the American Association for Cancer Research, (2003
Jan) Vol. 9, No. 1, pp. 20-30. Ref: 107

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: DOCUMENT TYPE: United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Journal code: 9502500. ISSN: 1078-0432

ENTRY DATE:

Last Updated on STN: 18 Jul 2003

Entered Medline: 17 Jul 2003

Entered Medline: 17 Jul 2003

Entered Medline: 17 Jul 2003

To reduce the incidence and mortality associated with invasive cancers, the Intraepithelial Neoplasia (IEN) Task Force recommends that carcinogenesis be viewed as a disease that requires treatment.

This publication outlines the current knowledge of IEN of the ovary and reviews chemoprevention possibilities for ovarian cancer. Ovarian cancer has the highest mortality of all of the gnacological cancers and is the fourth leading cause of death from cancer in women. The IEN Task Force has defined precancer as a noninvasive lesion that has genetic abnormalities. loss of cellular control functions, and some phenotypic characteristics of invasive cancer with a substantial likelihood of developing invasive cancer. The IEN Task Force recommends targeting moderate to severe dysplasia for new IEN treatment agents in clinical trials. Ovarian cancer does not have a clear preinvasive lesion yet merits considerable study for new prevention strategies because of the high mortality associated with ovarian cancer. There is a great ovarian cancer by providing nonsurgical options that treat the entire epithelial layer. New prevention strategies hold significant promise to АВ

ACCESSION NUMBER: ANSWER 74 OF 77 2002733379 MEDLINE
PubMed ID: 12496662
Tubular epithelial-myofibroblast transdifferentiation
mechanisms in proximal tubule cells. MEDLINE on STN

CORPORATE SOURCE: Department of Medicine-Nephrology, Baylor College of Medicine, Houston, Texas 77030, USA. hlan@bcm.tmc.edu Current opinion in nephrology and hypertension, (2003 Jan) Vol. 12, No. 1, pp. 25-9. Ref: 33 Journal code: 9303753. ISSN: 1062-4821. England: United Kingdom Journal; Article; (JOUNNAL ARTICLE) General Review; (REVIEW)

DOCUMENT TYPE: PUB. COUNTRY:

English Priority Journals

ENTRY MONTH: ENTRY DATE:

FILE SEGMENT: LANGUAGE:

EMTRY DATE:
Extered STN: 27 Dec 2002
EMTRY DATE:
Extered STN: 10 Jul 2003
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AB PURPOSE OF REVIEW: Emerging evidence suggests that tubular epithelial-myofibroblast transdifferentiation is an important event in renal tubulointerstitial fibrosis. This review describes the recent findings in the context of the tubular epithelial-myofibroblast transdifferentiation process and discusses the possible mechanisms involved. RECENT FINDINGS: Tubular epithelial-myofibroblast transdifferentiation is a complex process involving disruption of polarized tubular epithelial cell morphology into cells with spindle-shaped mesenchymal morphology, formation of actin stress fibers, loss of cell-cell adhesions through downregulation of E-cadherin, destruction of basement membrane, and increased cell migration and destruction of basement membrane, and increased cell migration and invasion. This phenotypic transition has also been recently reported in human glomerulonephritis with progressive tubulointerstitial fibrosis. Transforming growth factor-beta is a key fibrogenic growth factor that regulates tubular epithelial-myofibroblast

a key pathway whereby transforming growth
factor-beta and angiotensin II induce tubular epithelialmyofibroblast transdifferentiation in vitro. This involves the activation
of transforming growth factor-beta
receptor-associated Smad2 and is inhibited by an inhibitory Smad protein,
Smad7. Thus, Smad signaling plays a critical role in tubular
epithelial-myofibroblast transdifferentiation. SUMMARY: Renal
myofibroblasts may be derived from tubular epithelial cells by a process
of tubular epithelial-myofibroblast transdifferentiation.
Transforming growth factor-beta signals
through Smads to positively or negatively regulate this process. Blockade
of this process by either hepatocyte growth factor or targeting the Smad
signaling pathway may provide novel therapeutic strategies to transdifferentiation, which is counter-regulated by hepatocyte growth factor. In addition, basic fibroblast growth factor, advanced glycation end products, and angiotensin II have also been reported to induce the process. Importantly, the recent discovery of transforming growth factor-beta/smad signaling has allowed the delineation of the intracellular mechanisms of tubular epithelial-myofibroblast transdifferentiation. Indeed, Smad signaling is fibrosis

FILE SEGMENT: ENTRY MONTH: ENTRY DATE: ENTRY DATE:
Entered STN: 18 Dec 2002
Entered Mediine: 18 Mar 2003

AB Bone marrow (BM) fibrosis could occur secondarily to several clinical disorders: hematological and nonhematological.

Clinical presentation of fibrosis could occur in myelogroliferative diseases, lymphoma, myelodysplastic syndrome and myeloma. The pathophysiology underlying BM fibrosis remains unclear despite intensive study, with a corresponding lack of specific therapy. This review discusses new insights in the role of substance P, cytokines and fibronectin in the development of BM fibrosis. Substance P, cytokines and fibronectin in the development of BM fibrosis. Substance P is a neuropransmission and immune/hematopoietic modulation and is linked to BM fibrosis. Cytokines and growth factors, in particular those associated with fibrogenic properties, e.g. TGF-beta, II-1 and platelet-derived growth factor, are linked to BM fibrosis. Extracellular matrix proteins are increased in patients with BM fibrosis. Pibronectin in the sera of patients with BM fibrosis is complexed to substance P. Fibronectin appears to protect substance P from degradation by endogenous the colocalization of substance P and fibronectin in the BM of patients with particular focus on the relevant cytokines. A more detailed reports with particular focus on the relevant cytokines. ACCESSION NUMBER: : LANGUAGE: DOCUMENT TYPE: PUB. COUNTRY: CONTRACT NUMBER: CORPORATE SOURCE AUTHOR: DOCUMENT NUMBER: Substance p-fibronectin-cytokine interactions in myeloproliferative disorders with bone marrow fibrosis. Rameshwar P; Oh H S; Yook C; Gascon P; Chang V T Department of Medicine, UMDNJ New Jersey Medical School, Newark, N.J. 07103, USA.. rameshwa@umdnj.edu CA-89868 (NCI) HL-54973 (NHLBI) HL-57675 (NHLBI) Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Priority Journals English Switzerland Journal code: 0141053. ISSN: 0001-5792. Acta haematologica, (2003) Vol. 109, No. 1-10. Ref: 74 PubMed ID: 12486316 2002722583 200303 MEDLINE on STN MEDLINE

understanding of intra- and intercellular mechanisms in BM fibrosis may lead to effective therapy.
Copyright 2003 S. Karger AG, Basel

PUB. COUNTRY: CORPORATE SOURCE: DOCUMENT NUMBER: ANGUAGE: ACCESSION NUMBER: ANSWER 76 OF 77 Can thermal lasers promote skin wound healing?. Capon Alexandre; Mordon Serge Lille University Hospital, Lille, France. American journal of clinical dermatology, (2003 Vol. 4, No. 1, pp. 1-12. Ref: 149 Journal code: 100895290. ISSN: 1175-0561. 2002715447 MEDLINE Pubmed ID: 12477368 MEDLINE on STN Article; (JOURNAL ARTICLE)

ENTRY MONTH: ENTRY DATE: FILE SEGMENT: Priority Journals General Review; (REVIEW) English

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ENTRY DATE:

Entered STN: 17 Dec 2003

Entered Medline: 15 Apr 2003

AB Lasers are now widely used for treating numerous cutaneous lesions, for sear revision (hypertrophic and keloid scars), for tissue welding, and for skin resurfacing and remodeling (wrinkte removal). In these procedures skin resurfacing and remodeling (wrinkte removal). In these procedures skin resurfacing and remodeling (wrinkte removal). In these procedures obtained by conversion of light into heat can be very superficial, yet intense, if the laser light is well absorbed (far-infrared;CO(2) or Erbium:Yttrium Aluminum Garnet [Er:YAG] lasers), or it can be much deeper and less intense if the laser light is less absorbed by the skin (visible or near-infrared). Lasers transfer energy, in the form of heat, to surrounding tissues and, regardless of the laser used, a 45-50 degrees C temperature jurises exists, it is a result of live cells reacting to this low temperature increase. The generated supraphysiologic level of heat is able to induce a heat shock response (HER), which can be defined as the temporary changes in cellular metabolism. These changes are rapid and transient, and are characterized by the production of a small family of proteins termed the heat shock proteins (HSP). Recent experimental studies have clearly demonstrated that HSP 70, which is over-expressed following laser irradiation, could play a role with a coordinated expression of other growth factors such as transforming is known to be a key element in the inflammatory response and the fibrogenic process. In this process, the fibroblasts are the key cells since they produce collagen and extracellular matrix. In conclusion, the healing process when using thermal lasers, are in favor of a modification of the growth factors synthesis after laser irradiation, the changes and several clinical studies confirm that thermal lasers could effectively promote skin wound healing, if they are used in a

DOCUMENT NUMBER: ACCESSION NUMBER: ANSWER 77 OF 77 2002706420 MEDLI PubMed ID: 12469181 MEDLINE on STN MEDLINE

Cellular signaling pathways affect the function of ribonucleotide reductase mRNA binding proteins: mRNA stabilization, drug resistance, and malignancy ( Burton Teralee R; Kashour Tarek; Wright Jim A; Amara

> CORPORATE SOURCE: St. Boniface General Hospital Research Center, MB, R2H 2A6, Canada. International journal of oncology, (2003 Jan)

PUB. COUNTRY: Vol. 22, No. 1, pp. 21-31. Ref: 84 Journal code: 9306042. ISSN: 1019-6439.

DOCUMENT TYPE: General Review; (REVIEW)

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
ENTRY DATE: Priority Journals

ENTRY DATE:

Last Updated on STN: 17 Jun 2003

Ribonucleotide reductase is an enzyme that is essential for DNA synthesis and repair. It is composed of 2 dimeric proteins called RI and R2 that are both necessary for enzymatic activity that reduces ribonucleotides to deoxyribonucleotides. This is the rate-limiting reaction that provides a supply of precursors for DNA synthesis therefore it is essential for cell proliferation. The importance of understanding the complex regulation of ribonucleotide reductase is emphasized by observations that mechanisms controlling its expression and activity may be altered during malignant cell proliferation which leads to drug resistance, making it a useful target to develop chemotherapeutic compounds in the treatment of cancer. Expression studies with the R1 and R2 genes have provided by transcriptional activation of gene expression that provide reductase in determining malignant potential. Ribonucleotide reductase is regulated by transcriptional activation of gene expression and post-transcriptional regulation of sense stability. Post-transcriptional mechanisms that alter mRNA message stability. Post-transcriptional regulation of mRNA turnover plays an important role in modulating mRNA steady state levels and therefore directly influences gene expression. The 3'-untranslated region (UTR) of R1 and R2 messages contain sequences that are important in regulating gene expression through changes in message stability. Studies have found that mRNA message stability is mediated by growth factors, cytokines and tumor promoters. Several studies have elucidated signal transduction pathways of tumor promoters, reports how knowledge of these signaling pathways of tumor promoters, important in regulating cellular proliferation, drug resistance and malignancy. malignancy.

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